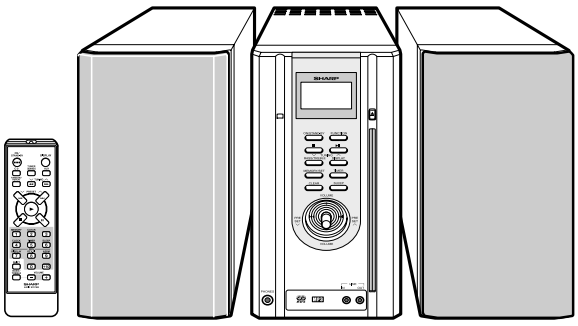
SHARP SERVICE MANUAL

No. S7552XLMP9H//



MICRO COMPONENT SYSTEM

MODEL XL-MP9H

XL-MP9H Micro Component System consisting of XL-MP9H (main unit) and CP-MP8H (speaker system).

• In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

COMPACT disc DIGITAL AUDIO R·D·S CD-R/RW Playable

SAVING ENERGY STAND-BY POWER CONSUMPTION 0.9W ENERGY MP3

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Parts Guide

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

CHAPTER 1. GENERAL DESCRIPTION

[1] PRECAUTION FOR USING LEAD-FREE SOLDER

1. Employing lead-free solder

"MAIN,JACK,SENSOR,SWITCH,DISPLAY,POWER PWB" of this model employs lead-free solder.
The LF symbol indicates lead-free solder, and is attached on the PWB and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

Indicates lead-free solder of tin, silver and copper.

2. Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.
As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40 °C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

3. Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220 °C which is higher than the conventional lead solder by 40 °C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.
Lead-free solder contains more tin, and the end of the soldering bit may be easily corrected. Make sure to turn on and off the power of the bit as required.
If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.
When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Ref No.	Parts No.	Description
PWB-A	DCEKKV565SJ03	MAIN(A1)/JACK(A2)/Sensor(A3)/SWITCH(A4)/DISPLAY(A5)/POWER(A6)

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

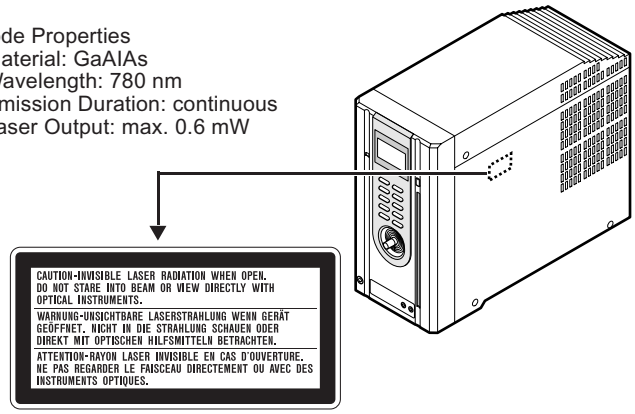
[2] SAFETY PRECAUTION FOR SERVICE MANUAL

Precaution to be taken when replacing and servicing the Laser Pickup.

The AEL (Accessible Emission Level) of Laser Power Output for this model is specified to be lower than Class 1 Requirements. However, the following precautions must be observed during servicing to protect your eyes against exposure to the Laser beam.

1) When the cabinet has been removed, the power is turned on without a compact disc, and the Pickup is on a position outer than the lead-in position, the Laser will light for several seconds to detect a disc. Do not look into the Pickup Lens.
2) The Laser Power Output of the Pickup inside the unit and replacement service parts have already been adjusted prior to shipping.
3) No adjustment to the Laser Power should be attempted when replacing or servicing the Pickup.
4) Under no circumstances look directly into the Pickup Lens at any time.
5) CAUTION - Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser Diode Properties
Material: GaAlAs
Wavelength: 780 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW



ADVARSEL-USYNLIG LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.

VARO! AVATTAESSA OLET ALTTIINA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.

VARNING-OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.

VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VARNING - OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERAS. KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

[3] SPECIFICATIONS

■ General

Power source	AC 230 V, 50 Hz
Power consumption	Power on: 25 W Power stand-by: 0.9 W
Dimensions	Width: 100 mm (3-15/16") Height: 205 mm (8-1/16") Depth: 240 mm (9-7/16")
Weight	2.1 kg (4.6 lbs.)

■ Amplifier

Output power	PMPO: 30 W (total) MPO: 15 W (7.5 W + 7.5 W) (DIN 45 324) RMS: 10 W (5 W + 5 W) (DIN 45 324)
Output terminals	Speakers: 4 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms) Line output: 2 k ohms
Input terminals	Line input: 47 k ohms

■ Tuner

Frequency range	FM: 87.5 - 108.0 MHz AM: 522 - 1,620 kHz

Specifications for this model are subject to change without prior notice.

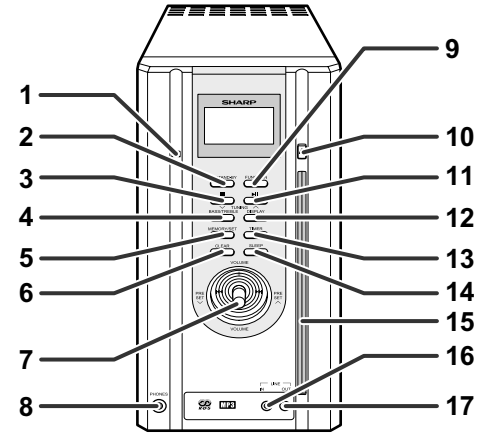
■ CD player

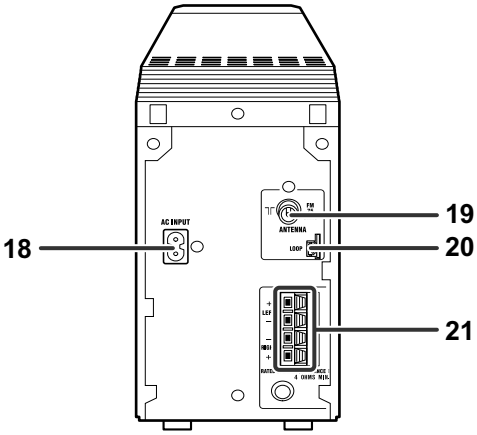
Type	Compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ Speaker

Type	8 cm (3-1/8") full-range speaker
Maximum input power	10 W
Rated input power	5 W
Impedance	4 ohms
Dimensions	Width: 100 mm (3-15/16") Height: 205 mm (8-1/16") Depth: 193 mm (7-5/8")
Weight	1.2 kg (2.6 lbs.)/each

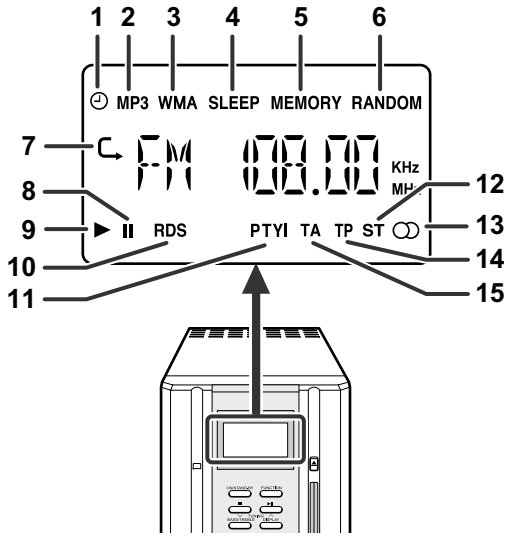
[4] NAMES OF PARTS



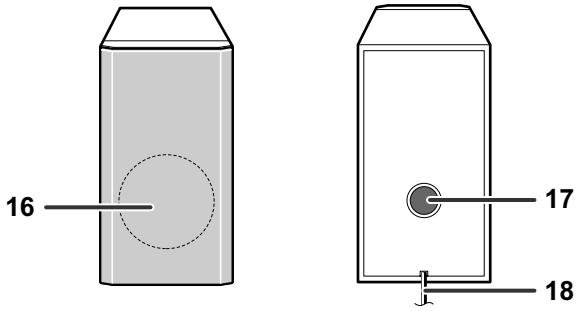


1. **Remote Sensor**
2. **On/Stand-by Button**
3. **Disc Stop/Tuning Down Button**
4. **Bass/Treble Selector Button**
5. **Memory/Set Button**
6. **Clear Button**
7. **Volume Up and Down/Track Up and Down/Preset Up and Down Lever**
8. **Headphone Socket**
9. **Function Selector Button**
10. **Disc Eject Button**
11. **Disc Play or Pause/Tuning Up Button**
12. **MP3/WMA Display Button**
13. **Timer Button**
14. **Sleep Button**
15. **Disc Slot**
16. **Line Input Socket**
17. **Line Output Socket**

18. **AC Power Input Socket**
19. **FM 75 Ohm Aerial Socket**
20. **AM Loop Aerial Socket**
21. **Speaker Terminals**

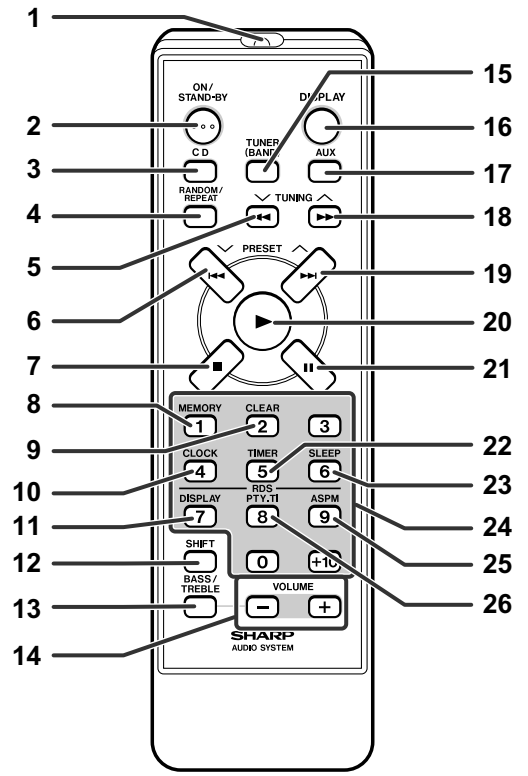


1. Timer Play Indicator
2. MP3 Track Indicator
3. WMA Track Indicator
4. Sleep Indicator
5. Memory Indicator
6. Random Play Indicator
7. Repeat Play Indicator
8. Pause Indicator
9. Play Indicator
10. RDS Indicator
11. Dynamic PTY Indicator
12. FM Stereo Mode Indicator
13. FM Stereo Receiving Indicator
14. Traffic Programme Indicator
15. Traffic Announcement Indicator



16. Full-Range Speaker
17. Bass Reflex Duct
18. Speaker Wire

Notes:
- The speaker grilles are not removable.
- There is no distinction between the right and the left speakers.



1. Remote Control Transmitter
2. On/Stand-by Button
3. CD Select Button
4. Random/Repeat Button
5. Fast Reverse/Tuning Down Button
6. Track Down/Preset Down Button
7. Disc Stop Button
8. Memory Button
9. Clear Button
10. Clock Button
11. RDS Display Mode Select Button
12. Shift Button
13. Bass/Treble Selector Button
14. Volume Up and Down Buttons
15. Tuner and Band Selector Button
16. MP3/WMA Display Button
17. Auxiliary Button
18. Fast Forward/Tuning Up Button
19. Track Up/Preset Up Button
20. Disc Play Button
21. Disc Pause Button
22. Timer Button
23. Sleep Button
24. Direct Search Buttons
25. RDS ASPM (Auto Station Programme Memory) Button
26. RDS Programme Type/ Traffic Information Search Button

CHAPTER 2. ADJUSTMENTS

[1] ADJUSTMENT

1. TUNER SECTION

fL: Low-range frequency

fH: High-range frequency

• AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
IF	450 kHz	1,602 kHz	T351	*1
AM Band Coverage	—	531 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	T302	*3

*1. Input: Antenna Output: Speaker terminal

*2. Input: Input is not connected Output: TP301(IC302 20Pin)

• Check FM VT

Signal generator: 1 kHz, 40 kHz dev., FM modulated

Frequency	Display	Check Point	Instrument Connection
87.5 MHz	87.5 MHz	2.2V ± 1.0V	TP301
108 MHz	108 MHz	7.3V ± 1.0V	TP301

• FM Mute Level

Signal generator: 1 kHz, 40 kHz dev., FM modulated

Frequency	Display	Adjusting Parts	Instrument Connection
98.00 MHz (30 dBμV)	98.00 MHz	VR351*1	Input: CNP301 Output: Speaker Terminal

*1.Adjiust so that an output signal appears.

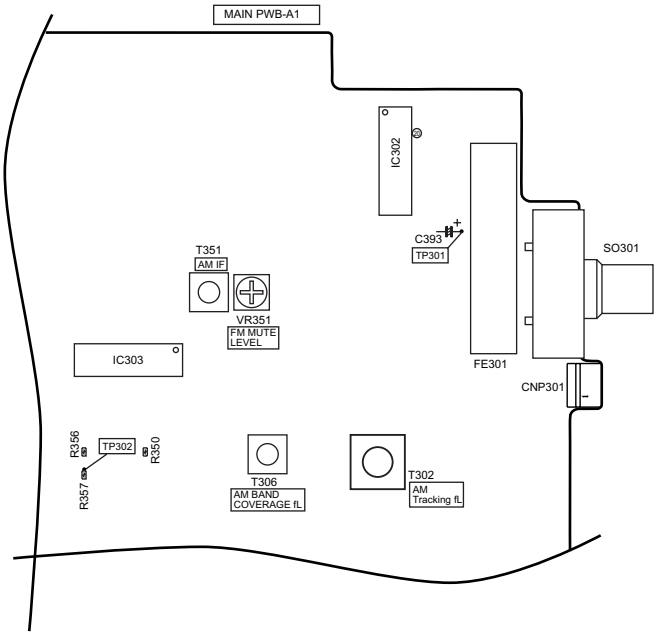


Figure 1 ADJUSTMENT POINTS

• Setting the Test Mode

Keeping the REW/REV button and BASS/TREBLE button pressed, turn on POWER. Then, the frequency is initially set in the memory as shown in Table. Call it with the PRESET button to use it for adjustment and check of tuner circuit.

Preset No.	BAND	FM STEREO
1	FM STEREO	FM 87.50 MHz
2		FM 108.00 MHz
3		FM 98.00 MHz
4		FM 90.00 MHz
5		FM 106.00 MHz
6	AM	AM 522 kHz
7		AM 1620 kHz
8		AM 990 kHz
9	AM	AM 603 kHz
11~25		————
26	FM MONO	FM 106.00 MHz
27		FM 90.00 MHz
28		FM 98.00 MHz
29		FM 108.00 MHz
30		FM 87.50 MHz

[2] TEST MODE

1. Turning on the test mode

Turning on the test mode

To turn on the specific test mode, holding down the following two buttons in the ordinary stand-by mode (power off state). In this case only the main unit button is valid. Even when the ON/STAND-BY of remote control button is set to on, the test mode is not turned on. Then press the ON/STAND-BY button.

[Ordinary test mode]

1. CD Test Mode (TEST 1).....MEMORY+FUNCTION
2. Tuner Test Mode (TEST 2).....FUNCTION+BASS/TREBLE
3. Volume Test Mode (TEST 3).....BASS/TREBLE+VOLUME DOWN
4. Timer Test Mode (TEST 4).....BASS/TREBLE+TIMER
5. Display Test Mode (TEST 5).....MEMORY+PLAY
6. ALL KEY Test (TEST 6).....BASS/TREBLE+PRESET UP
7. Tuner clear test (TEST 7).....MEMORY+Preset Up
8. Soft reset test (TEST 8).....FUNCTION+CLEAR

All test modes can be terminated by turning off the power with ON/STAND-BY key.

- **CD test (TEST 1)**

[cd step 1] Enter test mode. ←———— Ⓐ

↓ Hold down the “memory” button

[cd step 2] After some steps, the laser turns on.

↓ Hold down the “memory” button

[cd step 3] After some steps, focus search is performed.

↓ Hold down the “memory” button

[cd step 4] After some steps, CLV rotation is performed.

↓ Hold down the “memory” button

[cd step 5] CD playback starts.

↓ Hold down the “stop” button to return to [cd step 1] ———— Ⓐ

In step 5, hold down the AUX key on the remote control. The tracking servo is switched on/off.

From step 3, the pick up can be moved with the FF/REW key.

- **Tuner test (TEST 2)**

CH	BAND	FREQUENCY
1	FM STEREO	FM87.50 MHz
2		FM108.00 MHz
3		FM98.00 MHz
4		FM90.00 MHz
5		FM106.00 MHz
6	AM	AM522 kHz
7		AM1620 kHz
8		AM990 kHz
9		AM603 kHz
10	AM	AM1404 kHz
11 . . 35		————
36	FM MONO	FM106.00 MHz
37		FM90.00 MHz
38		FM98.00 MHz
39		FM108.00 MHz
40		FM87.50 MHz

- **VOLUME test (TEST 3)**

  Starting from level 23 (default), check all the levels (0 - 23 - MAX).

- **TIMER test (TEST 4)**

  At 1:05, the power turns on to activate the tape function, and turns off after 90 seconds (equivalent to 90 minutes on the unit).

- **Display test (TEST 5)**

  When test mode is activated, the entire display lights up. As the “PLAY” key is pressed, half of the display lights up alternately.

- **ALL KEY test (TEST 6)**

  In the test mode, hold down all the buttons on the main unit and then press the “ON/STAND-BY”button. “OK” appears.

  If only the “ON/STAND-BY” button is pressed, “ERROR” appears.

- **Tuner clear test (TEST 7)**

  All tuner preset stations are cleared.

- **Soft reset test (TEST 8)**

  All data in RAM is cleared.

CHAPTER 3. MECHANICAL DESCRIPTION

[1] DISASSEMBLY

Caution on Disassembly
Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:
1) Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
2) Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
3) Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw.....(A1) x 5	1
2	Side Panel	1. Screw.....(B1) x 4	1
3	Rear Panel	1. Screw.....(C1) x 3	1
4	Display PWB	1. Screw.....(D1) x 2 2. Flat cable.....(D2) x 2 3. Socket.....(D3) x 3 3. Socket.....(D4) x 1	2
5	Main PWB	1. Screw.....(E1) x 3 2. Socket.....(E2) x 5 3. Flat cable.....(E3) x 1	2 3 3
6	Front Panel	1. Screw.....(F1) x 1	3
7	CD Mechanism Unit	1. Screw.....(G1) x 4	4
8	Power PWB	1. Screw.....(H1) x 4	4
9	Sensor PWB	1. Screw.....(J1) x 4 2. Socket.....(J2) x 1	5
10	Switch PWB	1. Screw.....(K1) x 6	5
11	Jack PWB	1. Screw.....(L1) x 2	5
12	CD Mechanism (Note)	1. Screw.....(M1) x 4 2. Spring.....(M2) x 1	6

Note:

After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electrostatic damage.

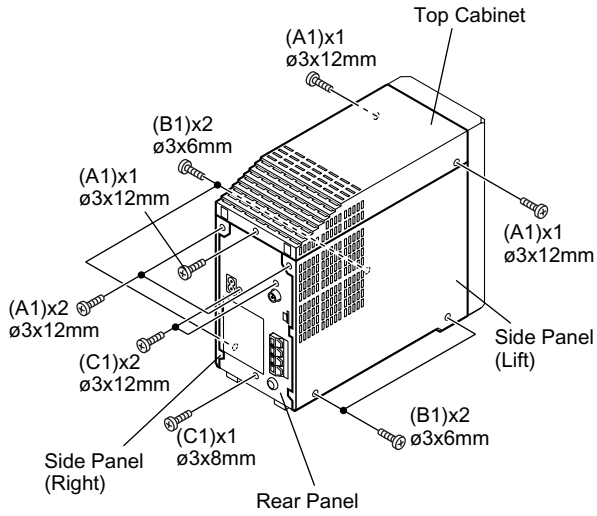


Figure 1

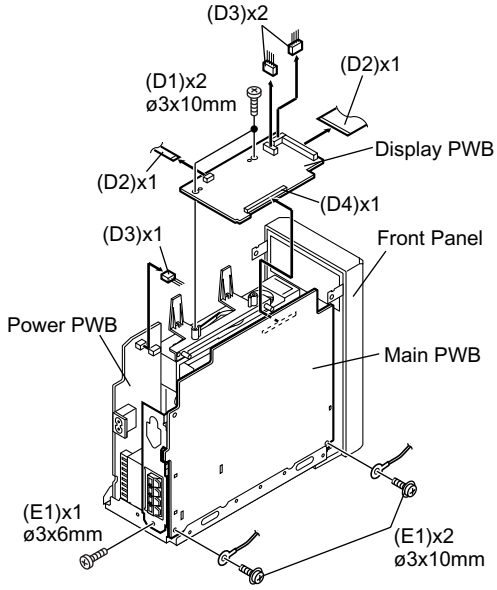


Figure 2

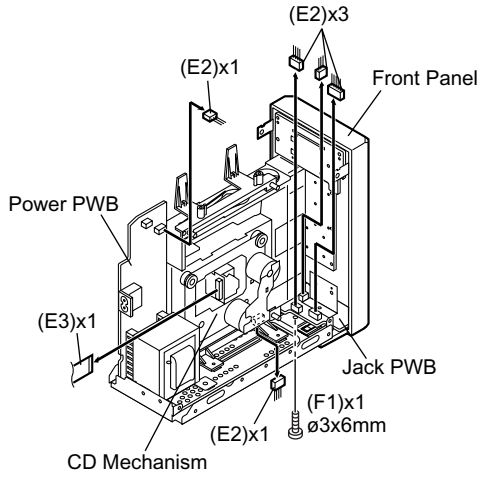


Figure 3

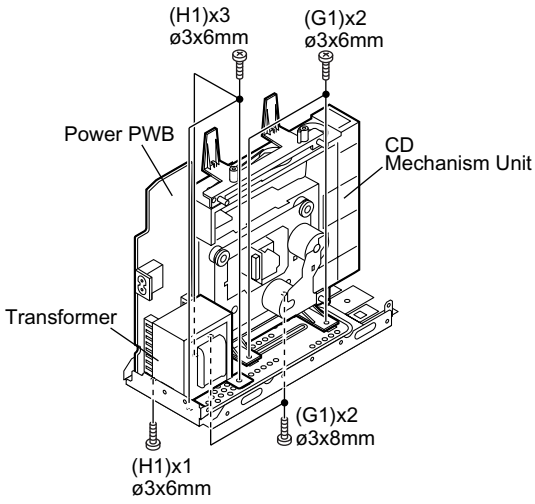


Figure 4

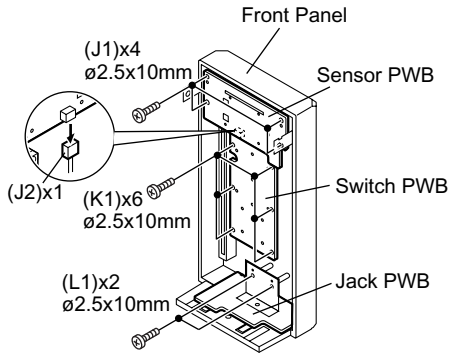


Figure 5

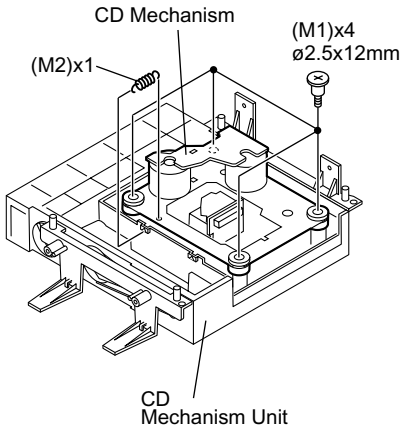


Figure 6

CP-MP8H

These speaker CP-MP8H are available in assembles only and may not be disassembled.

-MEMO-

CHAPTER 4. DIAGRAMS

[1] BLOCK DIAGRAM MAIN

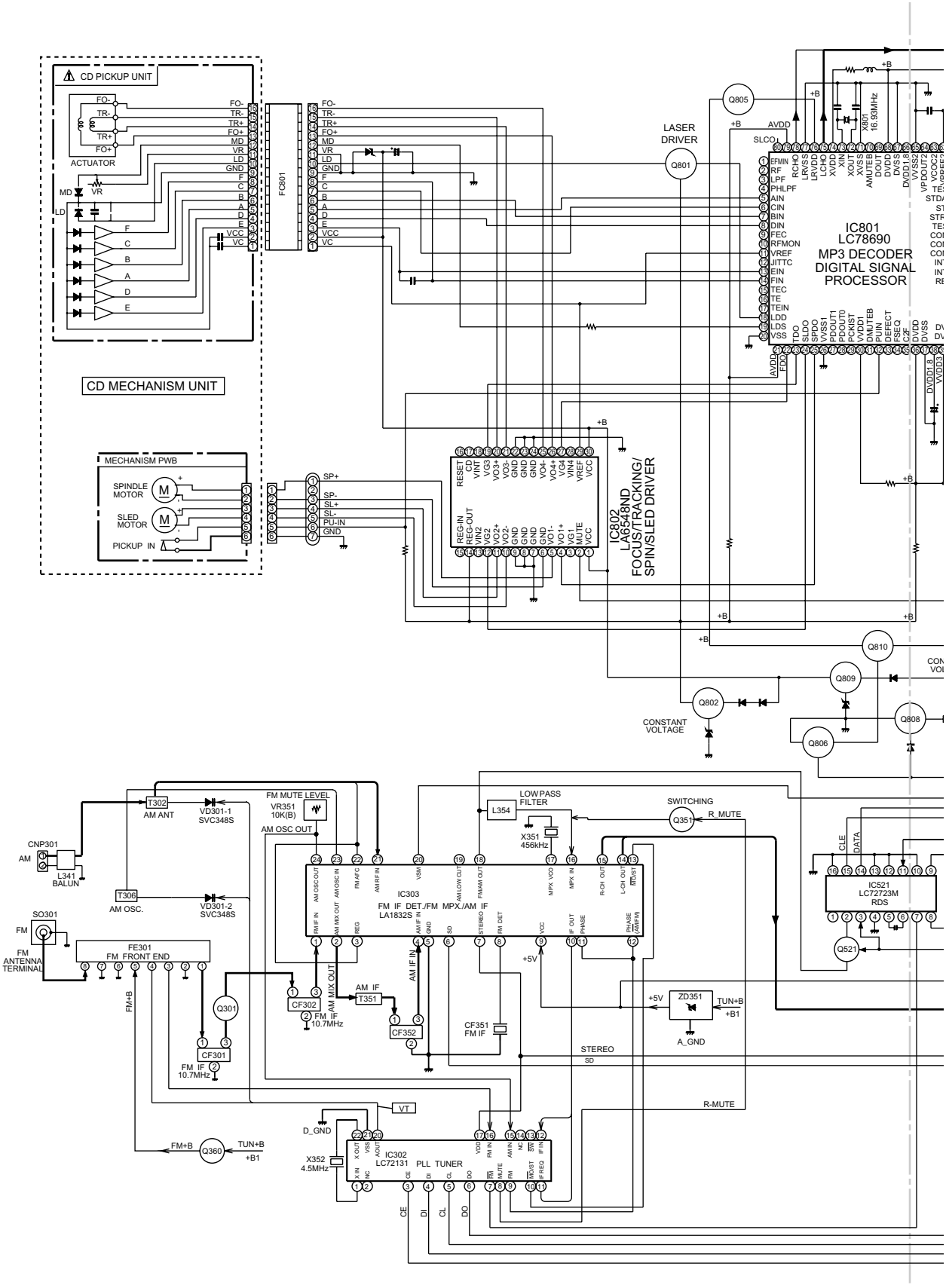


Figure 4-1 BLOCK DIAGRAM (1/4)

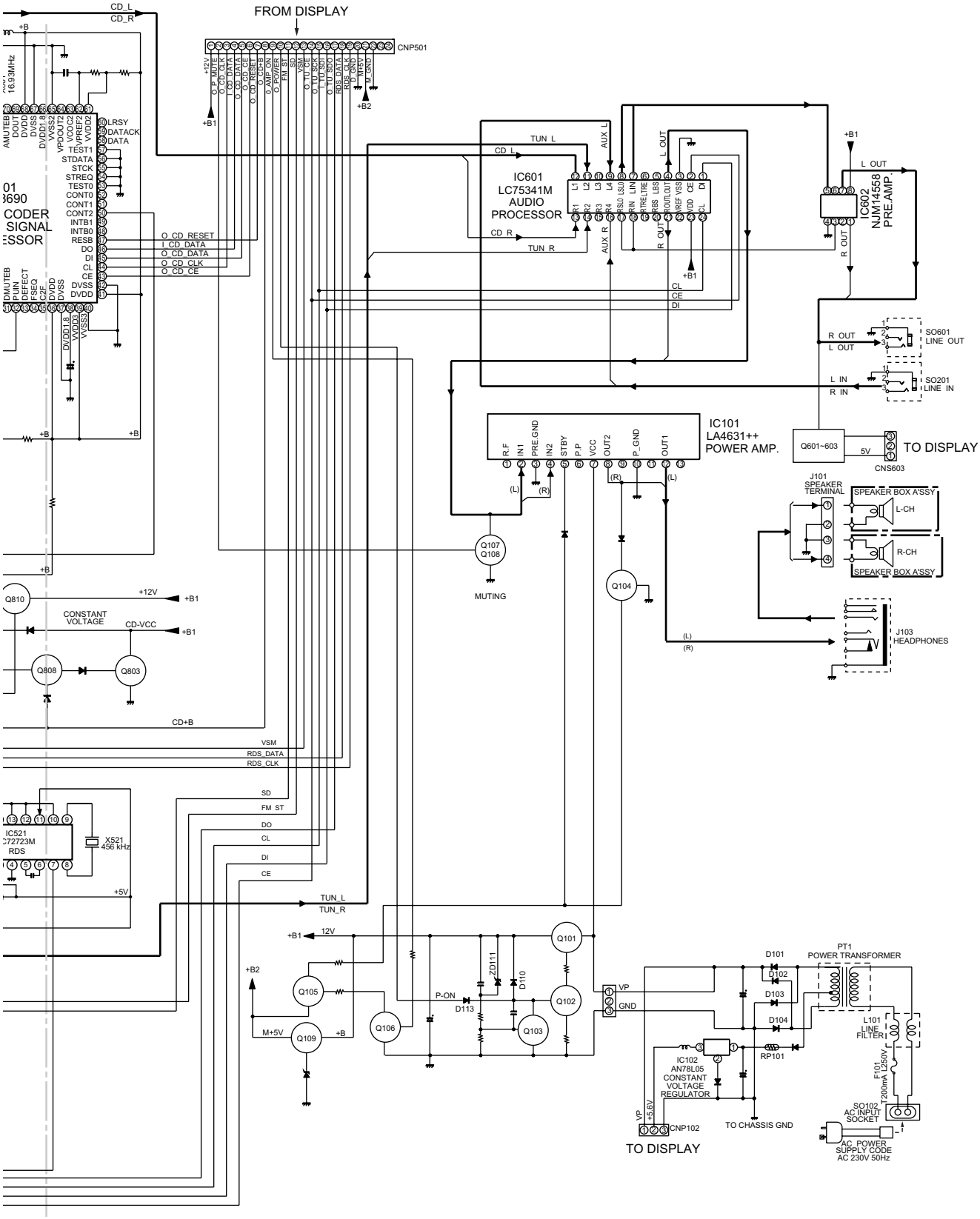


Figure 4-2 BLOCK DIAGRAM (2/4)

[2] BLOCK DIAGRAM DISPLAY

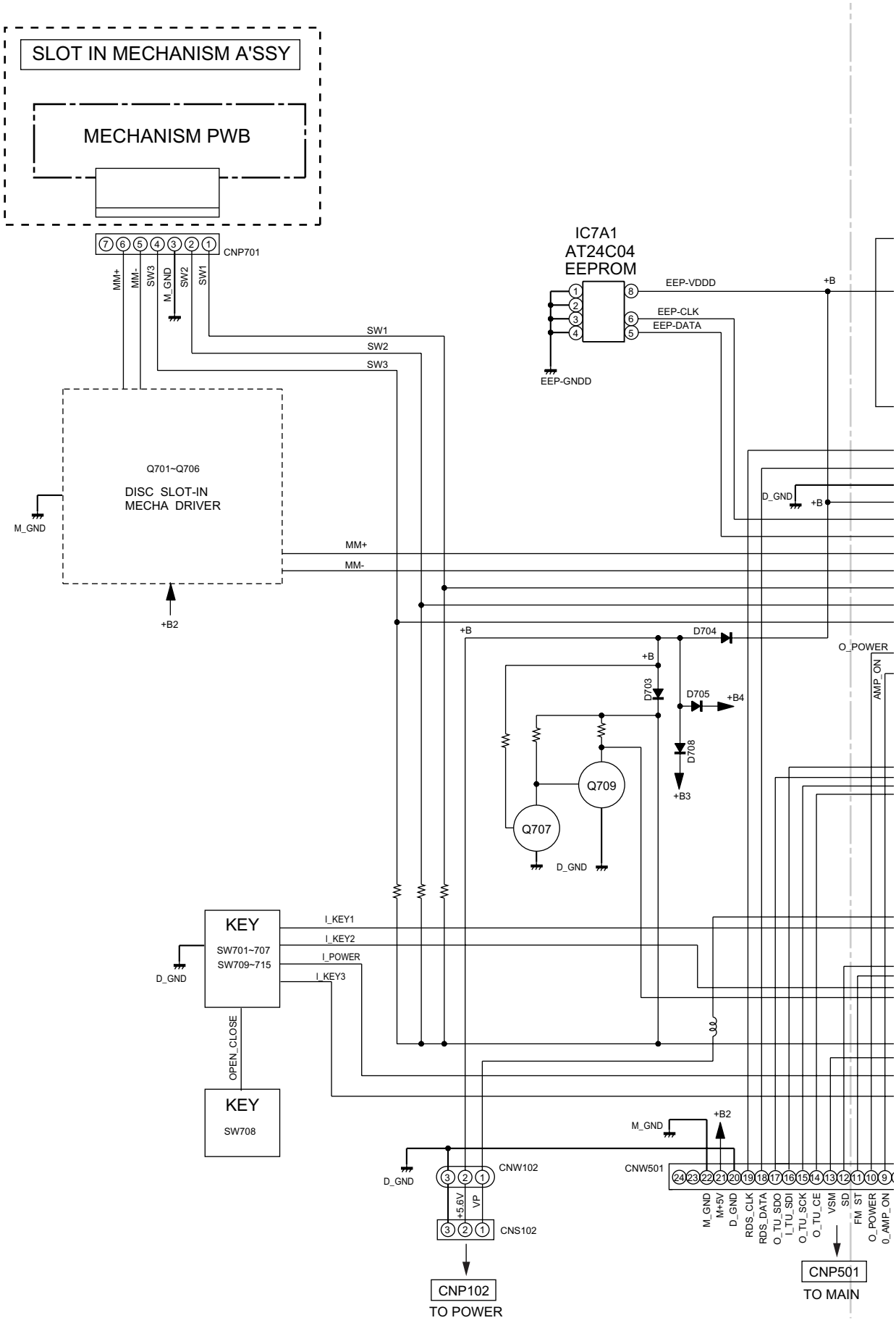


Figure 4-3 BLOCK DIAGRAM (3/4)

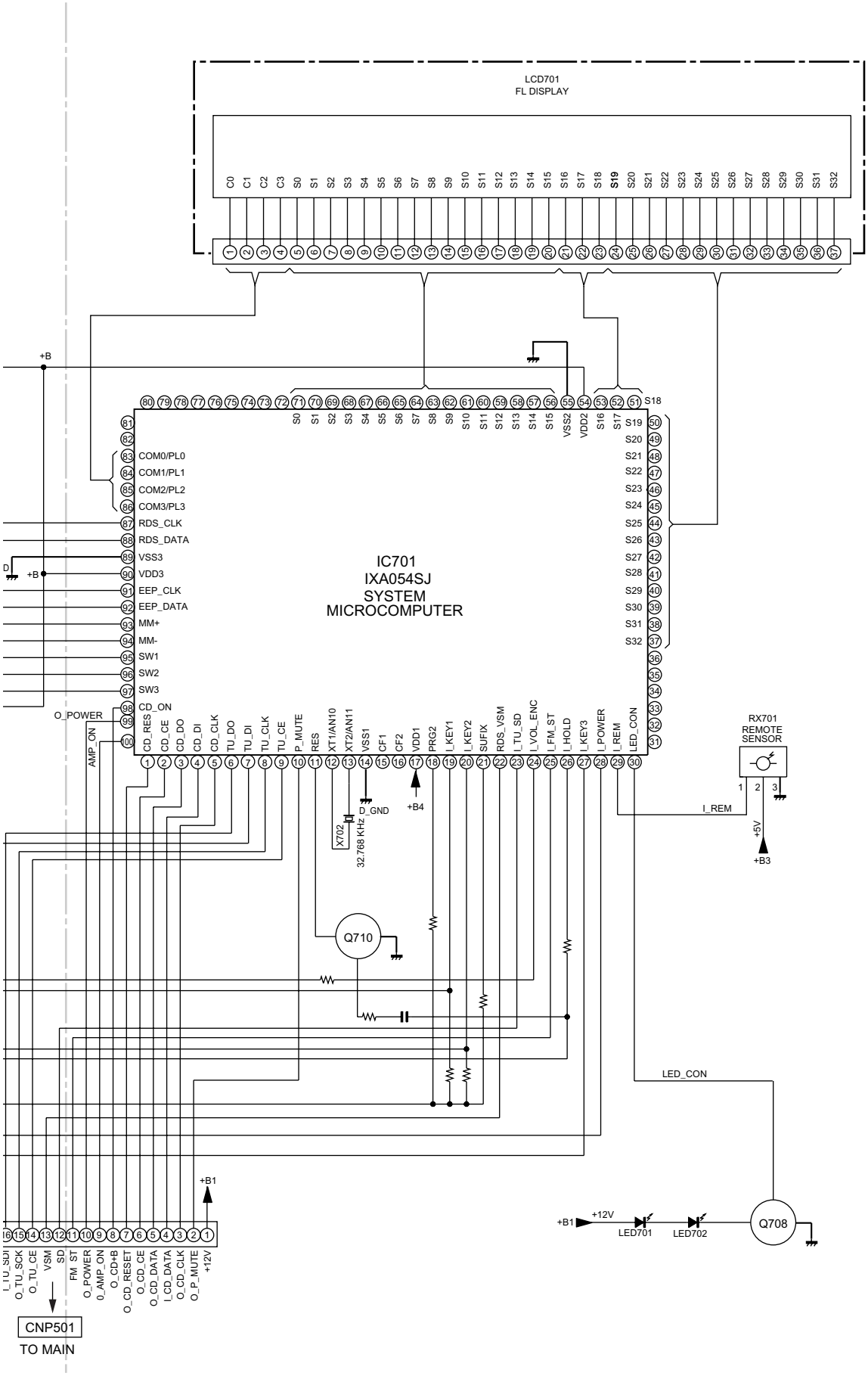
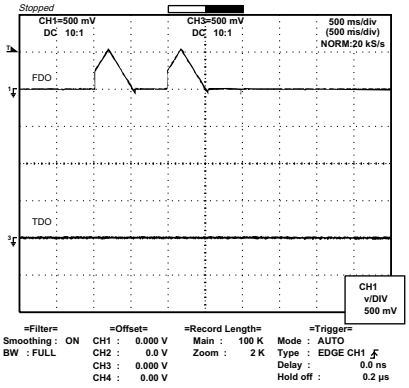


Figure 4-4 BLOCK DIAGRAM (4/4)

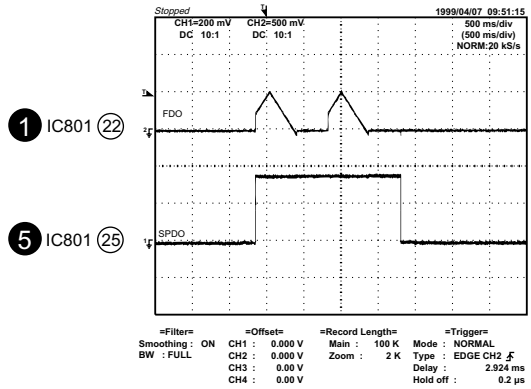
CHAPTER 5. CIRCUIT DESCRIPTION

[1] WAVEFORMS OF CD CIRCUIT

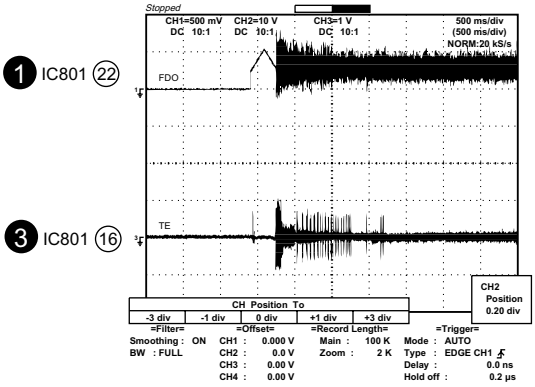
1 IC801 (22)
2 IC801 (23)



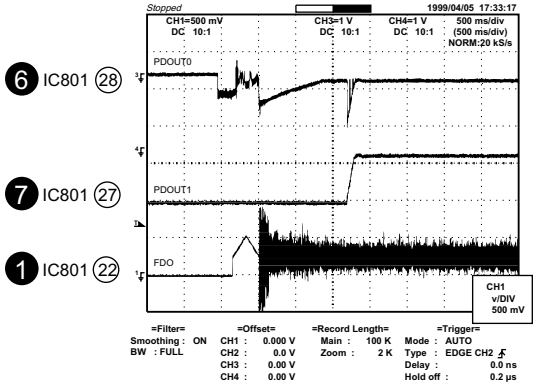
1 IC801 (22)
5 IC801 (25)



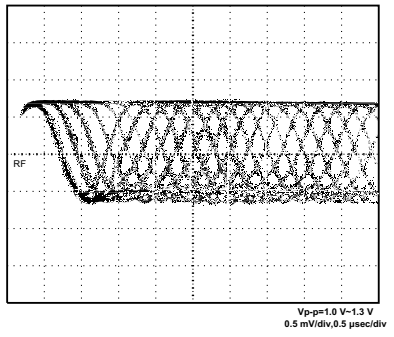
1 IC801 (22)
3 IC801 (16)



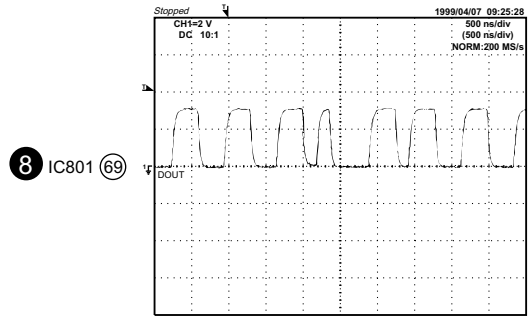
6 IC801 (28)
7 IC801 (27)
1 IC801 (22)



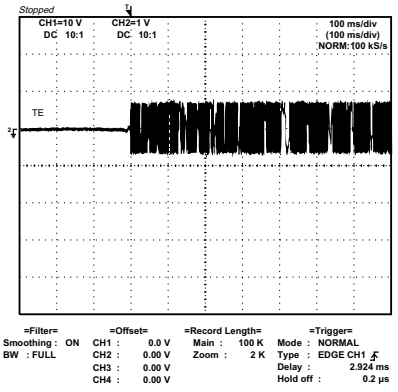
4 IC801 (2)



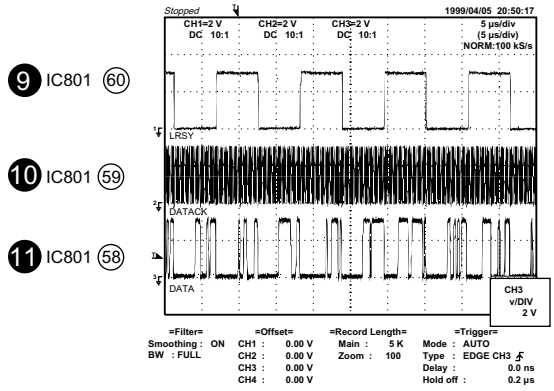
8 IC801 (69)



3 IC801 (16)



9 IC801 (60)
10 IC801 (59)
11 IC801 (58)



[2] VOLTAGE

IC101	
PIN NO.	VOLTAGE
1	9.14V
2	1.62V
3	0V
4	1.62V
5	1.51V
6	12V
7	18.3V
8	9.21V
9	0V
10	0V
11	0V
12	9.15V
13	0V

IC102	
PIN NO.	VOLTAGE
1	11.3V
2	0.6V
3	5.7V

IC601	
PIN NO.	VOLTAGE
1	3.5 V
2	3.5 V
3	0 V
4	3.5 V
5	3.5 V
6	3.5 V
7	3.5 V
8	3.5 V
9	3.5 V
10	3.5 V
11	3.5 V
12	3.5 V
13	3.5 V
14	3.5 V
15	3.5 V
16	3.5 V
17	3.5 V
18	3.5 V
19	3.5 V
20	3.5 V
21	3.5 V
22	3.5 V
23	7 V
24	3.5 V

IC602	
PIN NO.	VOLTAGE
1	6 V
2	6 V
3	6 V
4	6 V
5	6 V
6	6 V
7	6 V
8	12 V

IC802	
PIN NO.	VOLTAGE
1	7.75V
2	2.77V
3	1.45V
4	1.47V
5	3.9V
6	3.3V
7	0V
8	0V
9	0V
10	3.5V
11	3.7V
12	1.46V
13	1.45V
14	2.9V
15	1V
16	2.9V
17	3.4V
18	1.45V
19	1.45V
20	3.7V
21	3.6V
22	0V
23	0V
24	0V
25	3.6V
26	3.6V
27	1.46V
28	1.46V
29	1.46V
30	7.8V

IC521	
PIN NO.	VOLTAGE
1	2.5V
2	2.5V
3	5.1V
4	0V
5	5V
6	2.3V
7	0.6V
8	2.5V
9	2.5V
10	0V
11	5.1V
12	0V
13	0V
14	1.3V
15	1.3V
16	0V

IC801	
PIN NO.	VOLTAGE
1	1.38V
2	1.47V
3	1.45V
4	1.2V
5	1.6V
6	1.7V
7	1.67V
8	1.63V
9	1.42V
10	1.4V
11	1.46V
12	1.74V
13	1.75V
14	1.74V
15	1.43V
16	1.43V
17	1.43V
18	2V
19	0.18V
20	0V
21	2.9V
22	1.47V
23	1.5V
24	1.5V
25	1.6V
26	0V
27	0V
28	1V
29	0.93V
30	2.74V
31	0V
32	2.8V
33	0V
34	2.8V
35	0V
36	2.8V
37	0V
38	1.8V
39	2.8V
40	0V
41	2.8V
42	0V
43	0.45V
44	3V
45	3V
46	0V
47	3.23V
48	2.8V
49	2.8V
50	2.8V
51	0V
52	0V
53	0V
54	0V
55	0V
56	0V
57	0V
58	0V
59	0V
60	0V
61	2.57V
62	1.44V
63	2.1V
64	2.1V
65	0V
66	1.8V
67	0V
68	2.8V
69	0V
70	0V
71	0V
72	1V
73	1.14V
74	2.7V
75	1.64V
76	3.3V
77	0V
78	1.64V
79	2.9V
80	1.4V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	0V	51	2.47V
2	0V	52	2.47V
3	4.48V	53	2.47V
4	1.13V	54	5.00V
5	4.49V	55	0V
6	0V	56	2.40V
7	0V	57	2.47V
8	0V	58	2.46V
9	0V	59	2.46V
10	4.48V	60	2.46V
11	4.61V	61	2.46V
12	1.5V	62	2.46V
13	2.27V	63	2.46V
14	0V	64	2.46V
15	2.17V	65	2.46V
16	2.22V	66	2.46V
17	4.81V	67	2.46V
18	4.84V	68	2.46V
19	4.86V	69	2.46V
20	4.81V	70	2.46V
21	0.36V	71	2.46V
22	0V	72	0V
23	0V	73	0V
24	1.86V	74	0V
25	0V	75	0V
26	4.91V	76	0V
27	4.85V	77	0V
28	4.84V	78	0V
29	4.78V	79	0V
30	0V	80	0V
31	0V	81	1.67V
32	0V	82	0.5V
33	0V	83	2.3V
34	0V	84	2.3V
35	0V	85	2.3V
36	2.3V	86	2.3V
37	2.3V	87	0V
38	2.3V	88	0V
39	2.3V	89	0V
40	2.46V	90	4.8V
41	2.46V	91	0V
42	2.46V	92	0V
43	2.47V	93	0V
44	2.47V	94	0V
45	2.47V	95	4.9V
46	2.47V	96	4.9V
47	2.47V	97	4.9V
48	2.47V	98	0V
49	2.47V	99	0V
50	2.47V	100	0V

Q101	
PIN NO.	VOLTAGE
E	16.7V
C	12.0V
B	16.0V

Q102	
PIN NO.	VOLTAGE
E	0.2V
C	15.8V
B	0.7V

Q103	
PIN NO.	VOLTAGE
E	0V
C	0.8V
B	0.6V

Q104	
PIN NO.	VOLTAGE
E	0V
C	2.77V
B	0.5V

Q105	
PIN NO.	VOLTAGE
E	4.8V
C	4.5V
B	3.8V

Q106	
PIN NO.	VOLTAGE
E	0V
C	0.05V
B	0.7V

Q107	
PIN NO.	VOLTAGE
E	0V
C	0V
B	0V

Q108	
PIN NO.	VOLTAGE
E	0V
C	0V
B	0V

Q109	
PIN NO.	VOLTAGE
E	4.6V
C	1.2V
B	5.2V

Q301	
PIN NO.	VOLTAGE
E	0V
C	9.5V
B	0.8V

Q351	
PIN NO.	VOLTAGE
E	0V
C	4.7V
B	3.7V

Q360	
PIN NO.	VOLTAGE
E	12V
C	11V
B	11V

Q521	
PIN NO.	VOLTAGE
E	2V
C	5.1V
B	2.5V

Q701	
PIN NO.	VOLTAGE
E	0V
C	1.57V
B	1.48V

Q702	
PIN NO.	VOLTAGE
E	0V
C	1.44V
B	0V

Q703	
PIN NO.	VOLTAGE
E	0V
C	1.46V
B	0V

Q704	
PIN NO.	VOLTAGE
E	0V
C	3.9V
B	3.7V

Q705	
PIN NO.	VOLTAGE
E	0V
C	3.8V
B	0V

Q706	
PIN NO.	VOLTAGE
E	0V
C	3.5V
B	0V

Q707	
PIN NO.	VOLTAGE
E	0V
C	0.02V
B	0.5V

Q708	
PIN NO.	VOLTAGE
E	0V
C	0.04V
B	0.67V

Q709	
PIN NO.	VOLTAGE
E	0V
C	4.9V
B	0.02V

Q710	
PIN NO.	VOLTAGE
E	0V
C	4.61V
B	0V

Q801	
PIN NO.	VOLTAGE
E	3.2V
C	1.8V
B	2.5V

Q802	
PIN NO.	VOLTAGE
E	3.3V
C	6.3V
B	3.9V

Q803	
PIN NO.	VOLTAGE
E	0V
C	8.4V
B	0.1V

Q805	
PIN NO.	VOLTAGE
E	3.4V
C	12V
B	4V

Q806	
PIN NO.	VOLTAGE
E	0.02V
C	0.08V
B	0.7V

Q809	
PIN NO.	VOLTAGE
E	7.8V
C	11.4V
B	8.4V

Q810	
PIN NO.	VOLTAGE
E	12.2V
C	12.1V
B	11.4V

-MEMO-

CHAPTER 6. CIRCUIT SCHEMATICS AND PARTS LAYOUT

[1] NOTES ON SCHEMATIC DIAGRAM

- Resistor:

  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.

- Capacitor:

  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.

  (CH), (TH), (RH), (UJ): Temperature compensation

  (ML): Mylar type

  (P.P.): Polypropylene type

- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.

- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.

1. In the tuner section,

   ( ) indicates AM

   < > indicates FM stereo

2. In the main section, a tape is being played back.
3. In the deck section, a tape is being played back.

   ( ) indicates the record state.

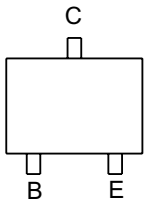
4. In the power section, a tape is being played back.
5. In the CD section, the CD is stopped.

- Parts marked with “ ⚠ ” (⊏ ⚌ ⚌ ⚌ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

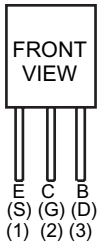
REF. NO	DESCRIPTION	POSITION
SW701	STOP	ON-OFF
SW702	BASS/TREBLE	ON-OFF
SW703	MEMORY/SET	ON-OFF
SW704	CLEAR	ON-OFF
SW705	VOLUME UP	ON-OFF
SW706	PRESET DOWN	ON-OFF
SW707	ON/STAND-BY	ON-OFF

REF. NO	DESCRIPTION	POSITION
SW708	DISC EJECT	ON-OFF
SW709	FUNCTION	ON-OFF
SW710	PLAY	ON-OFF
SW711	MP3/WMA DISPLAY	ON-OFF
SW712	TIMER	ON-OFF
SW713	SLEEP	ON-OFF
SW714	PRESET UP	ON-OFF
SW715	VOLUME DOWN	ON-OFF

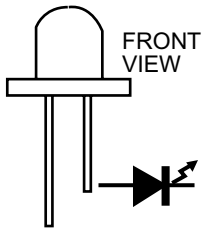
[2] TYPES OF TRANSISTOR AND LED



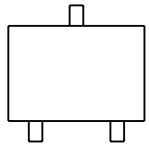
2SC3052 F+
2SA1235 F+



2HA1015 GR 2SC380 O
2HC1815 GR 2SB1370 E+
KTC3203 Y KRC104 M
KTA1271 Y 2SC5395 F+
KTC3205 Y KRA107 M

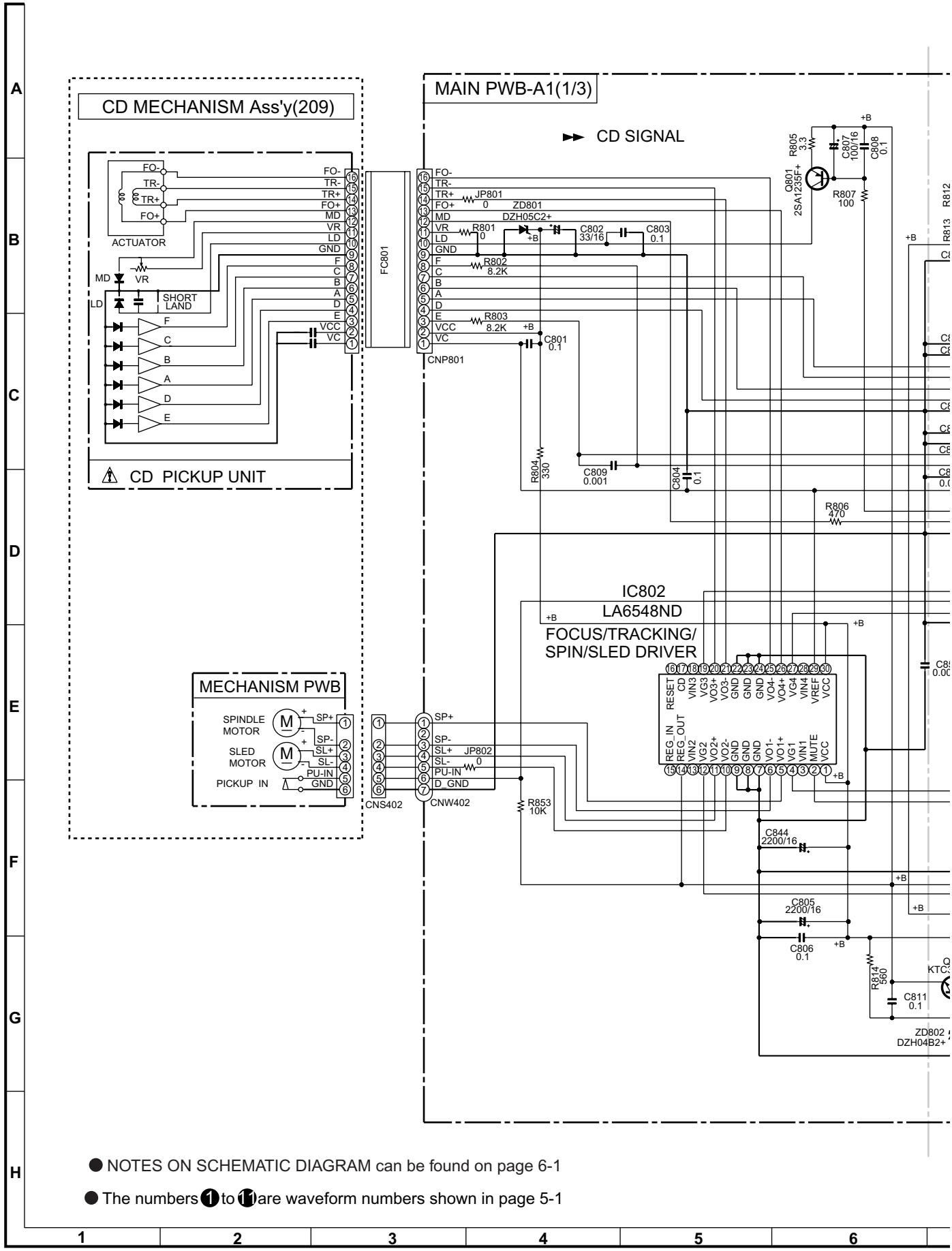


LPBB73VQ



SVC348S

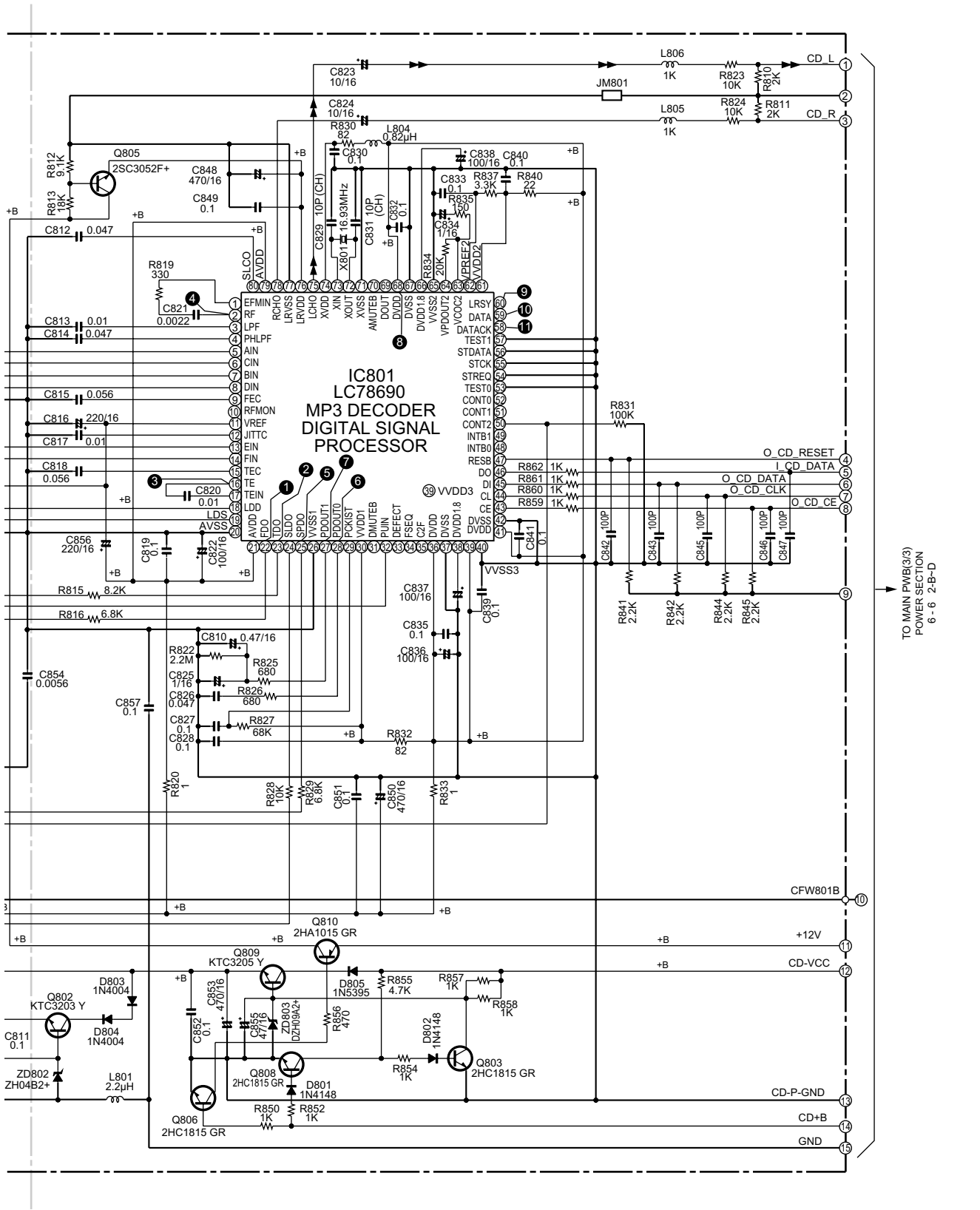
[3] SCHEMATIC DIAGRAM MAIN(1/3)



● NOTES ON SCHEMATIC DIAGRAM can be found on page 6-1

● The numbers ❶ to ⓫ are waveform numbers shown in page 5-1

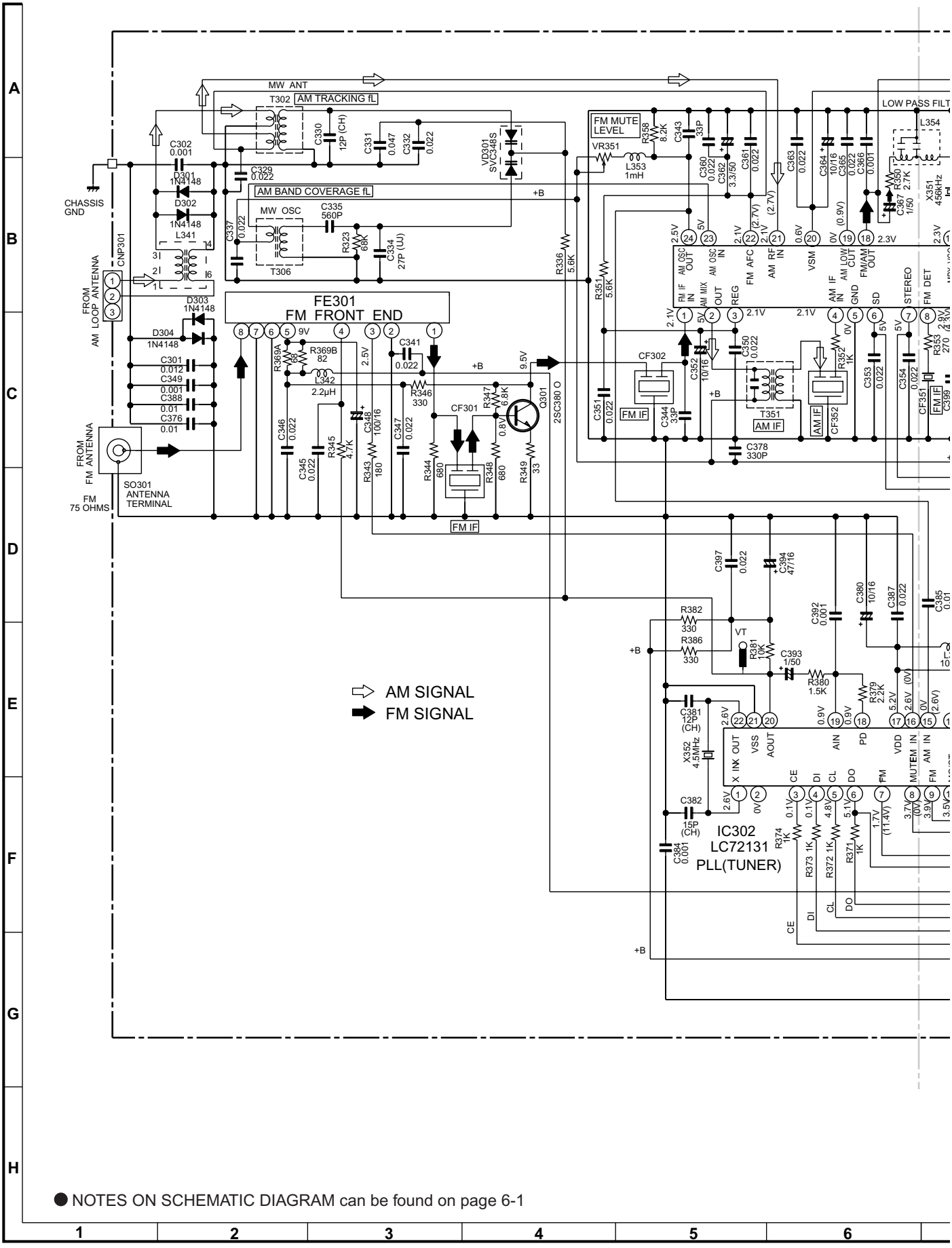
Figure 6-2 SCHEMATIC DIAGRAM (1/8)



7	8	9	10	11	12

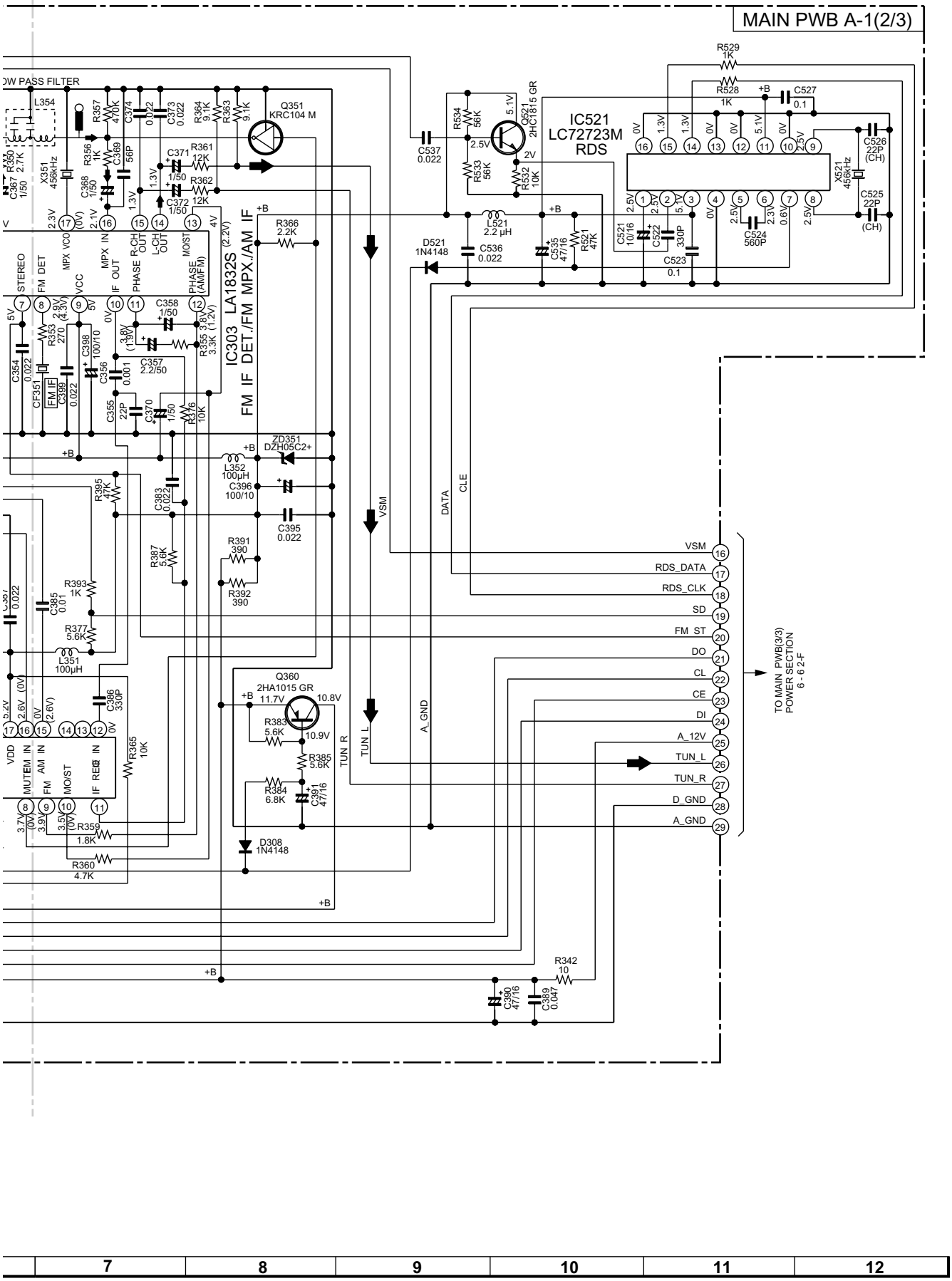
Figure 6-3 SCHEMATIC DIAGRAM (2/8)

[4] SCHEMATIC DIAGRAM MAIN(2/3)



● NOTES ON SCHEMATIC DIAGRAM can be found on page 6-1

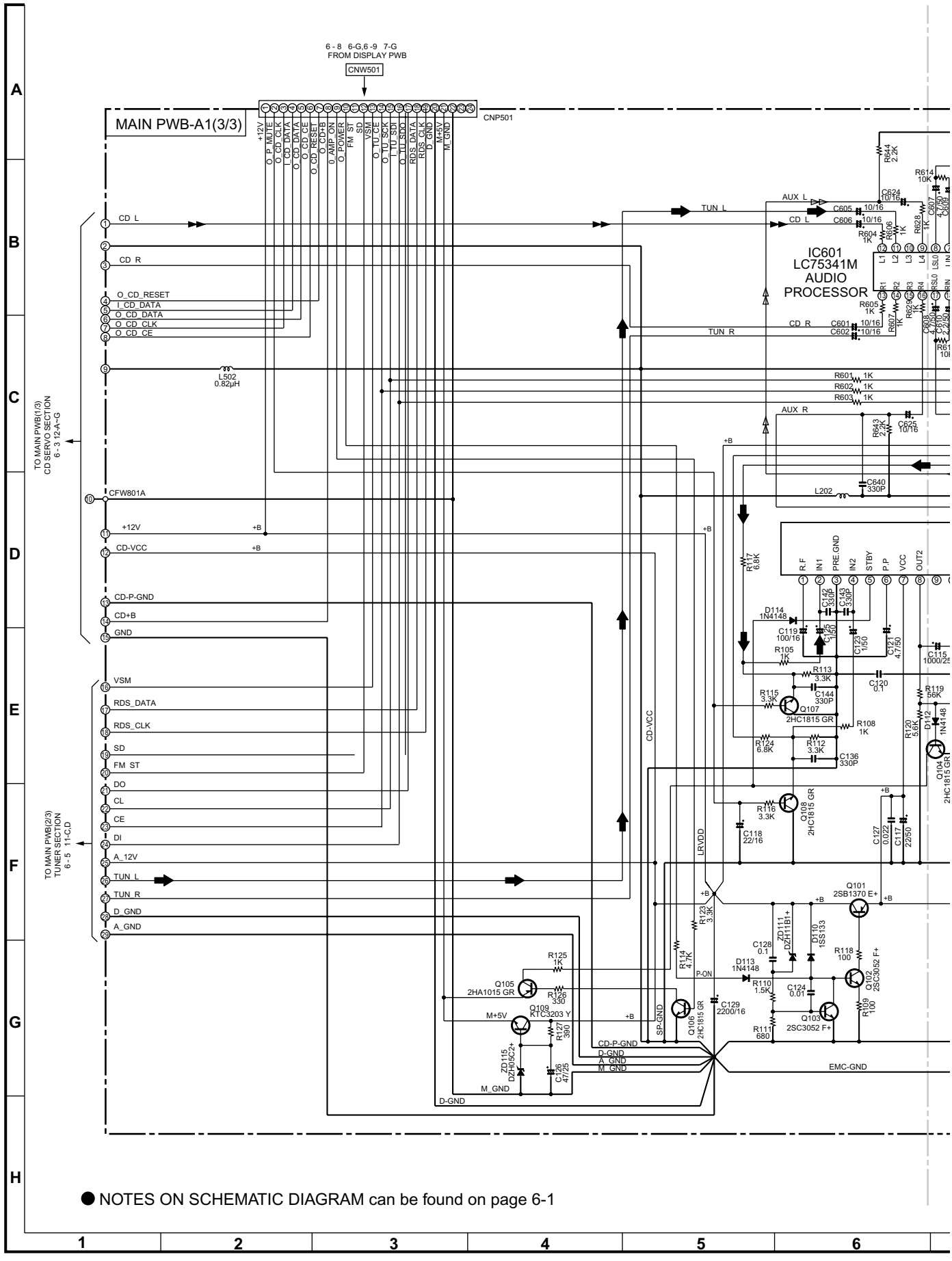
Figure 6-4 SCHEMATIC DIAGRAM (3/8)



	7	8	9	10	11	12

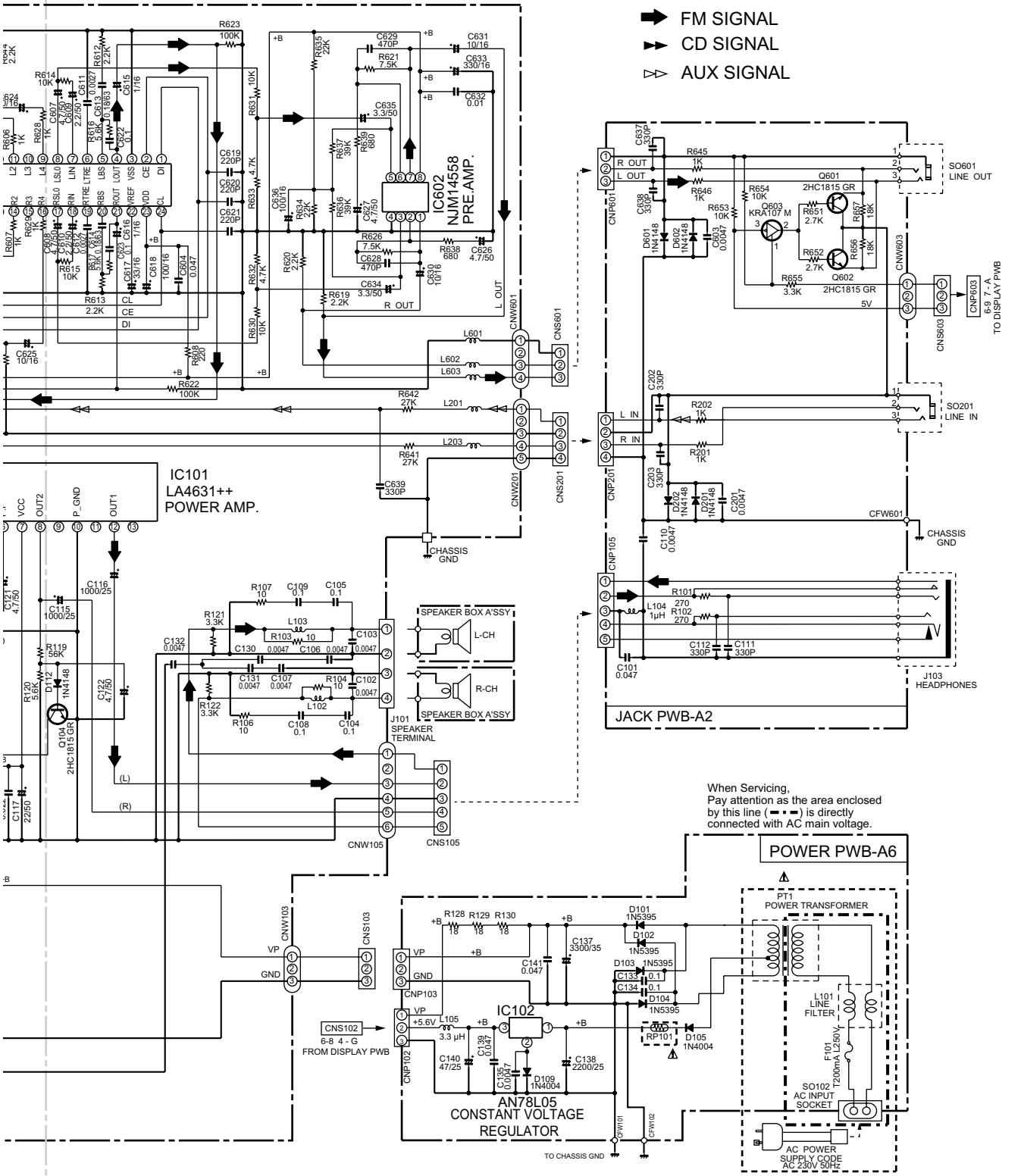
Figure 6-5 SCHEMATIC DIAGRAM (4/8)

[5] SCHEMATIC DIAGRAM MAIN(3/3)



● NOTES ON SCHEMATIC DIAGRAM can be found on page 6-1

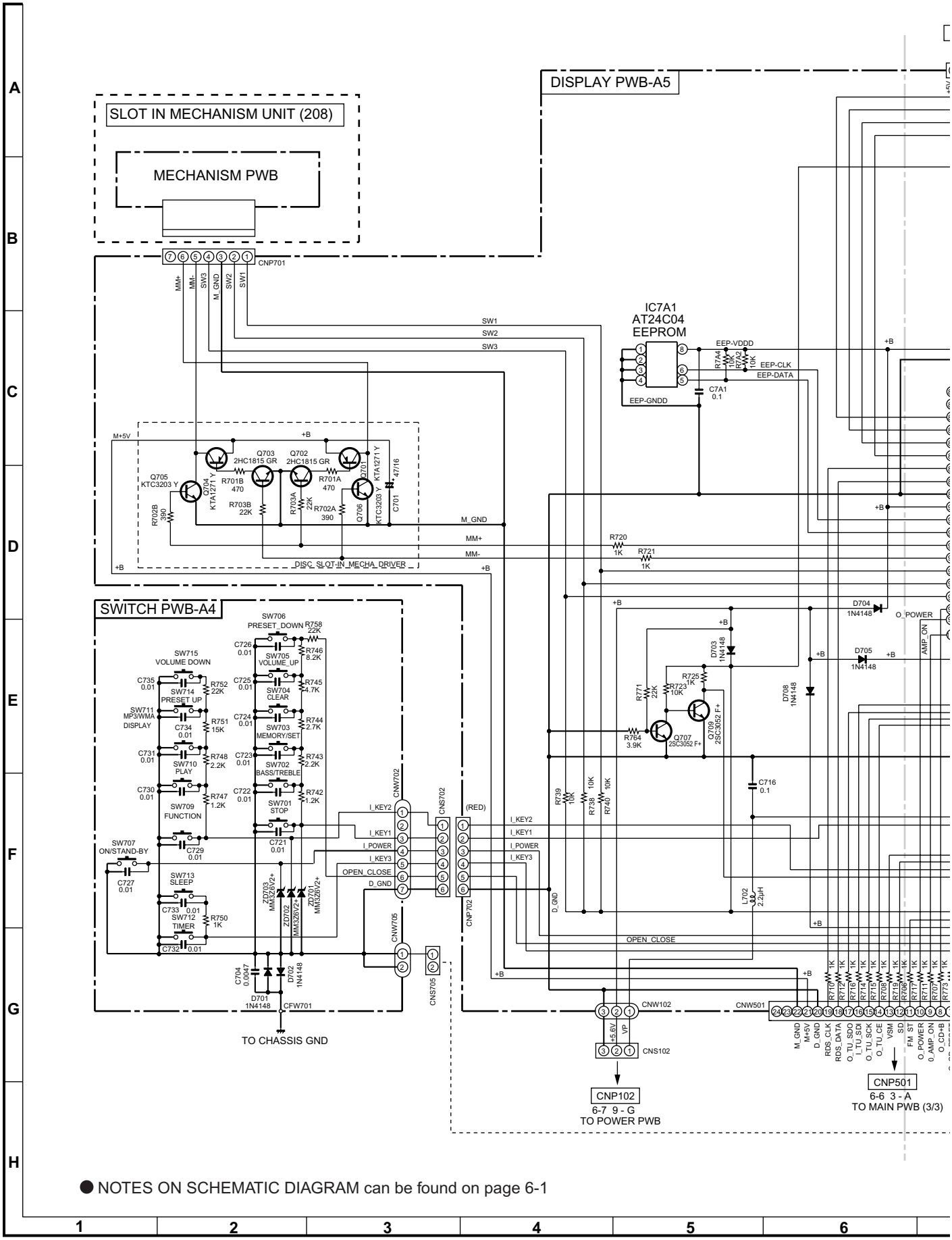
Figure 6-6 SCHEMATIC DIAGRAM (5/8)



7	8	9	10	11	12

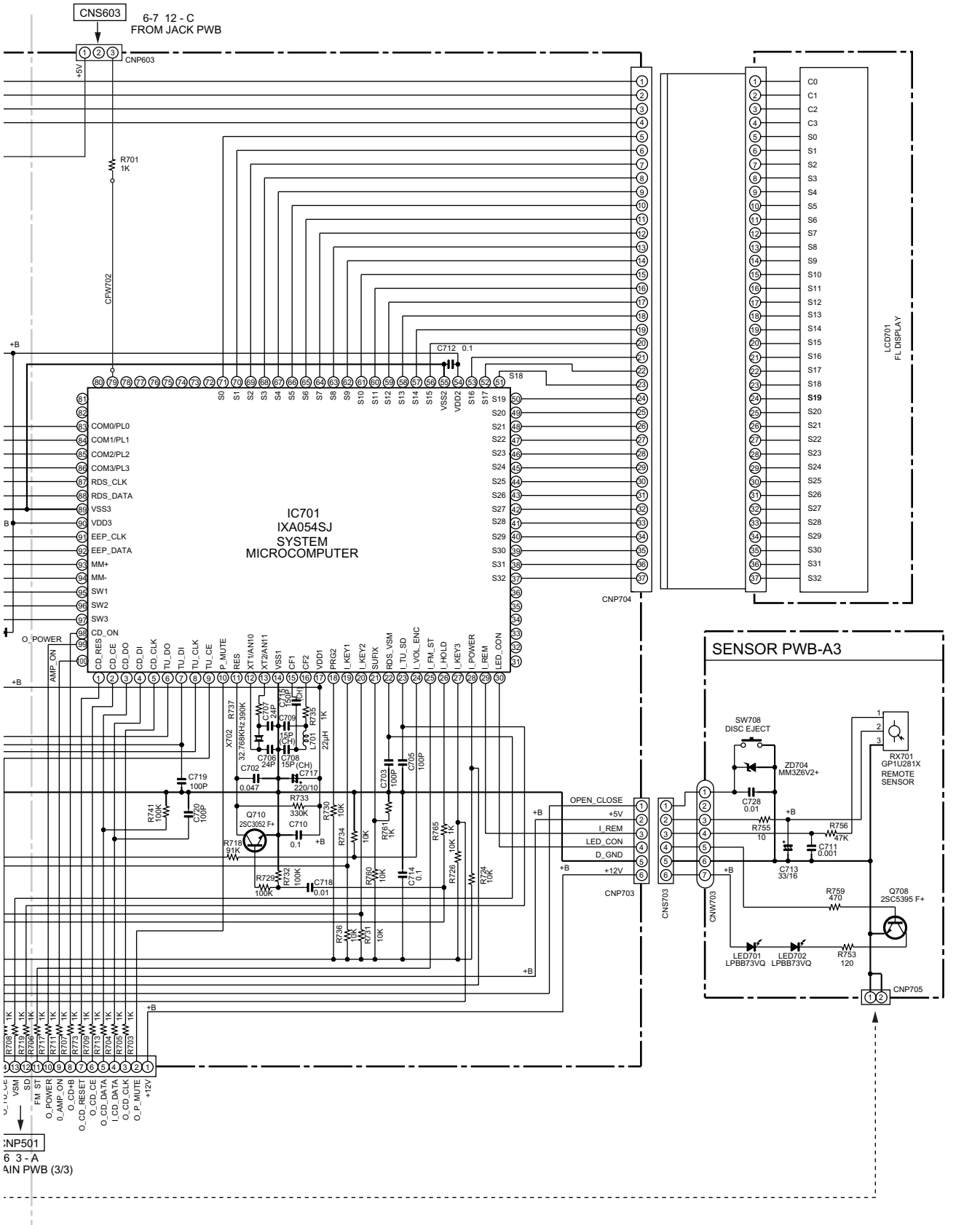
Figure 6-7 SCHEMATIC DIAGRAM (6/8)

[6] SCHEMATIC DIAGRAM DISPLAY



● NOTES ON SCHEMATIC DIAGRAM can be found on page 6-1

Figure 6-8 SCHEMATIC DIAGRAM (7/8)



7	8	9	10	11	12

Figure 6-9 SCHEMATIC DIAGRAM (8/8)

[7] WIRING SIDE OF PWB

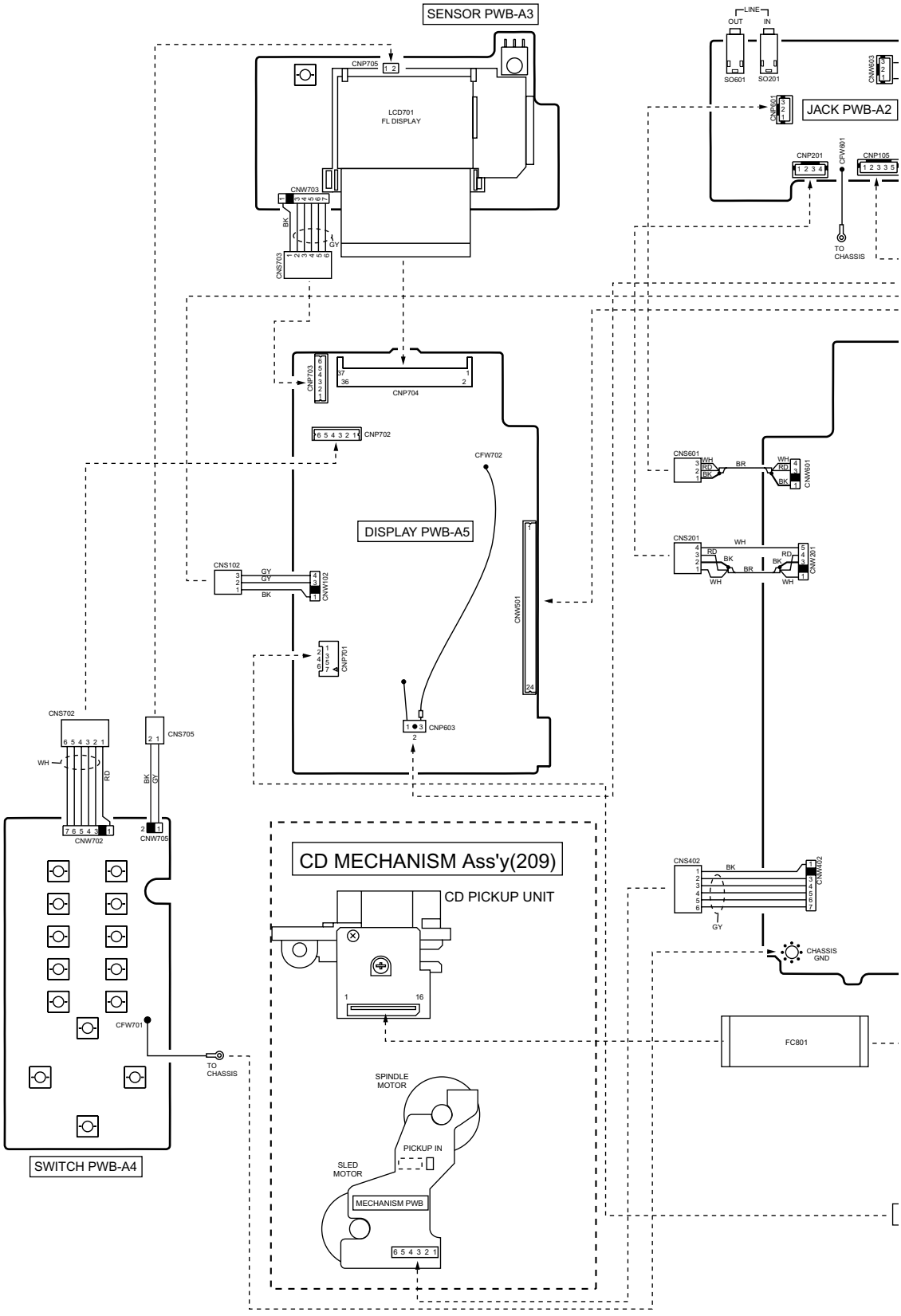
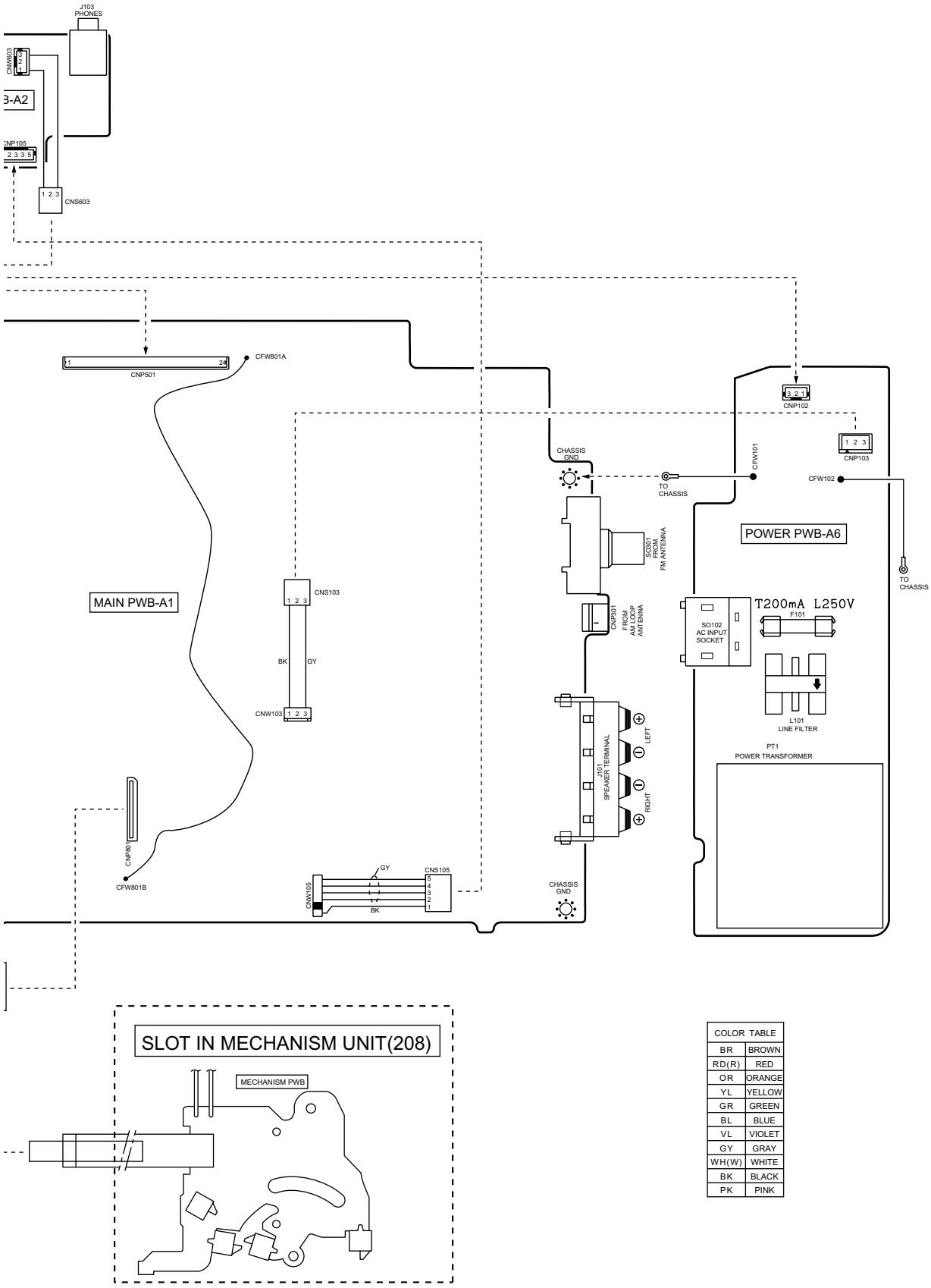


Figure 6-10 WIRING SIDE OF PWB (1/10)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

Figure 6-11 WIRING SIDE OF PWB (2/10)

[8] WIRING SIDE OF PWB MAIN TOP

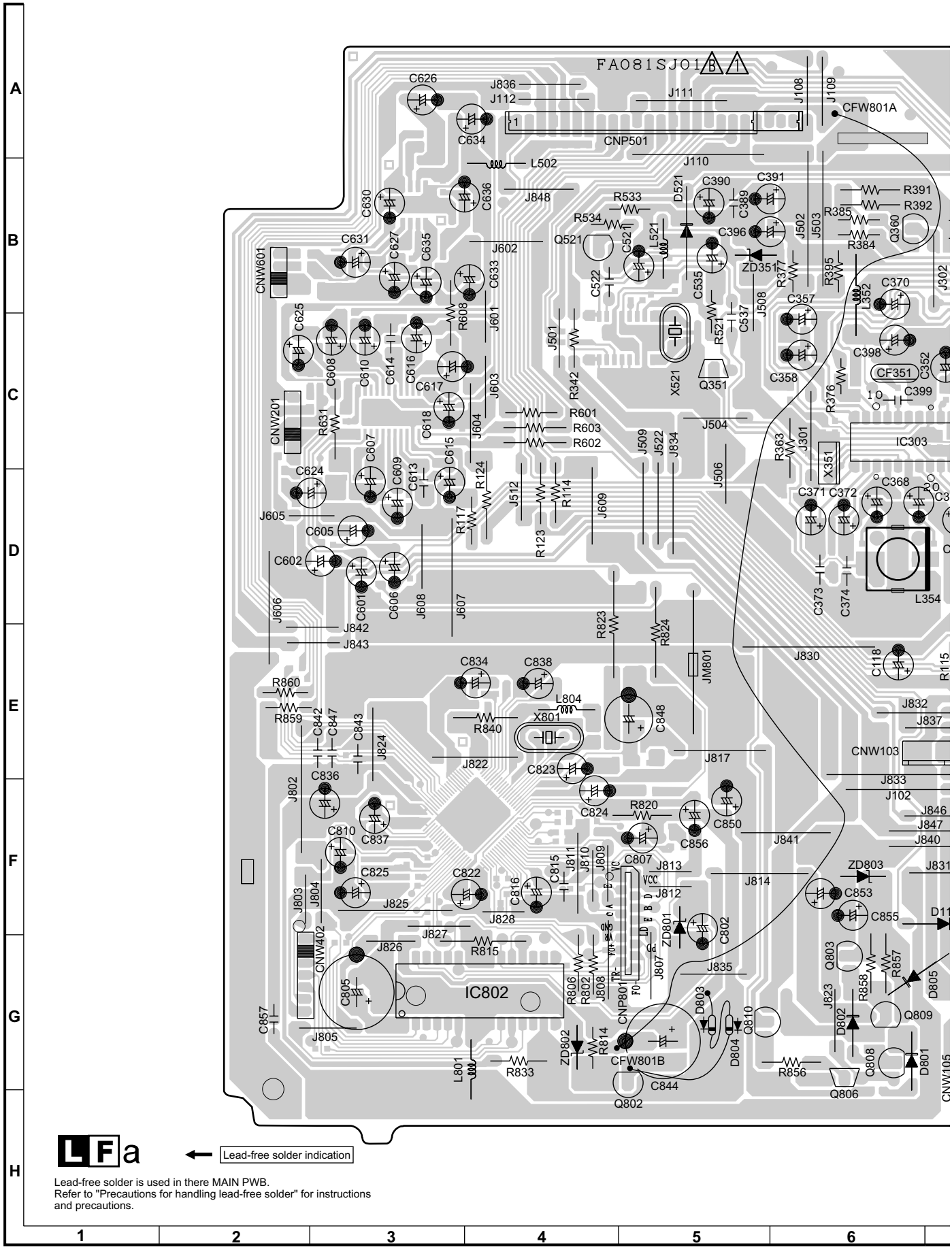
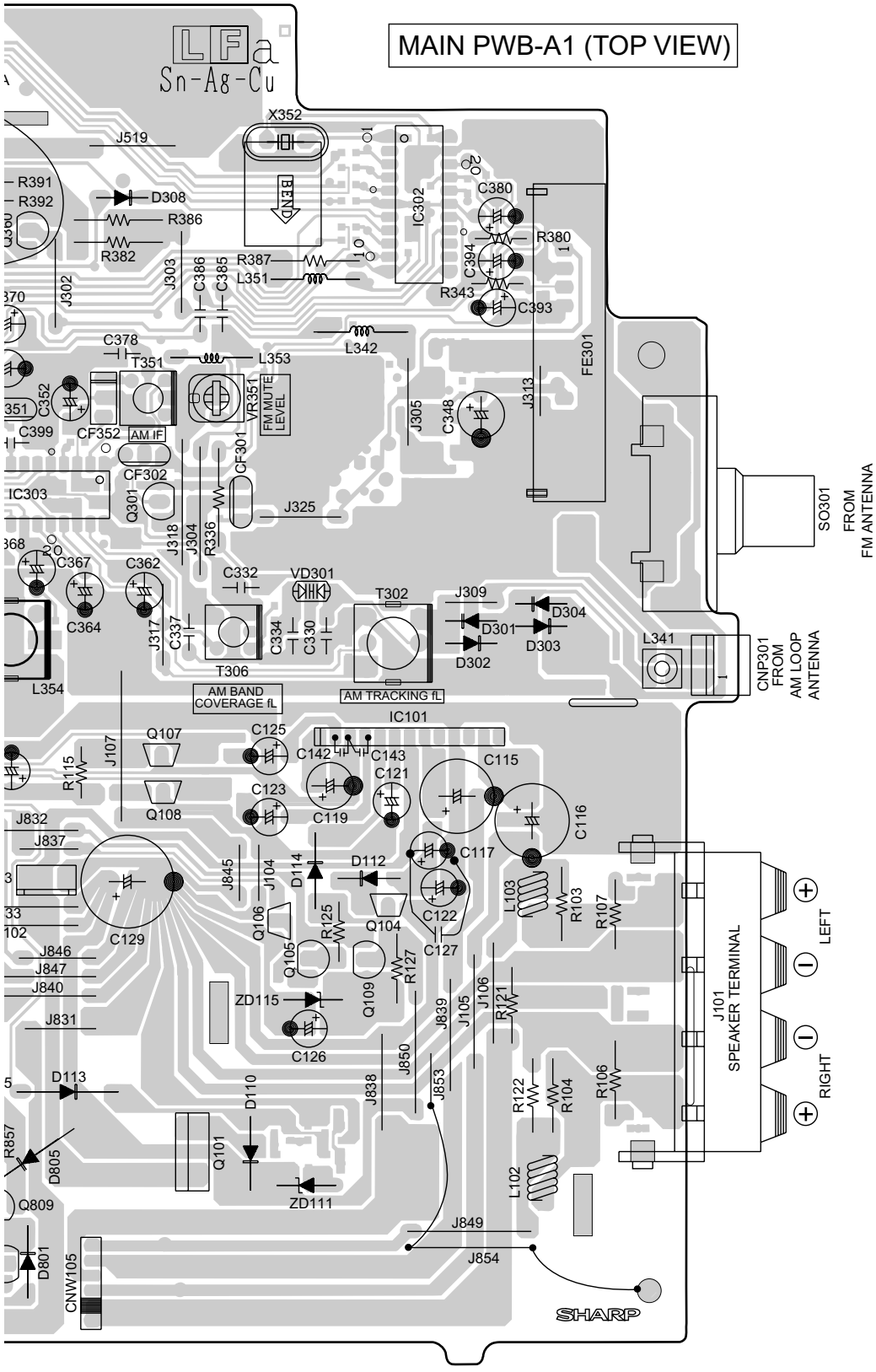


Figure 6-12 WIRING SIDE OF PWB (3/10)



	7	8	9	10	11	12

Figure 6-13 WIRING SIDE OF PWB (4/10)

[9] WIRING SIDE OF PWB MAIN BOTTOM

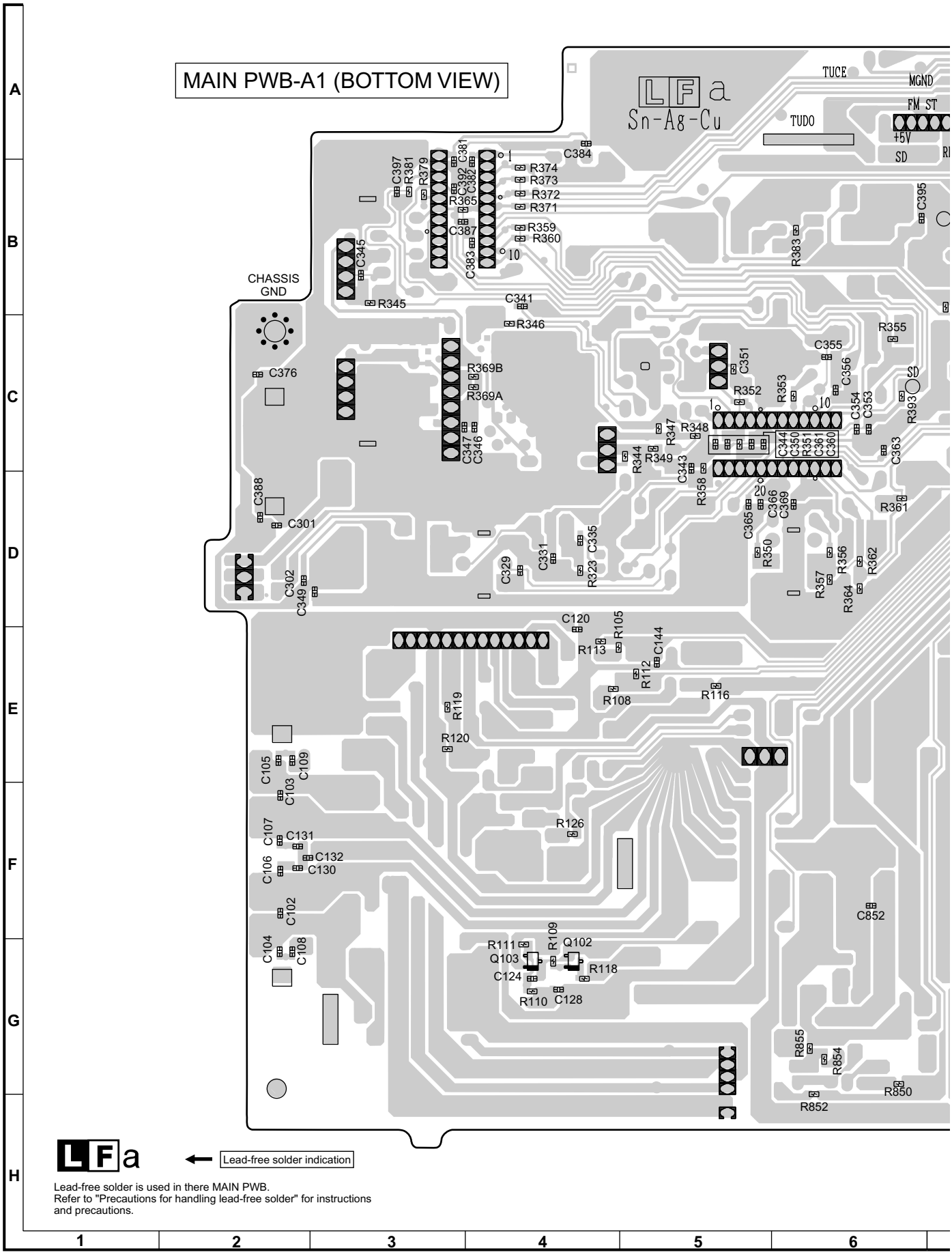
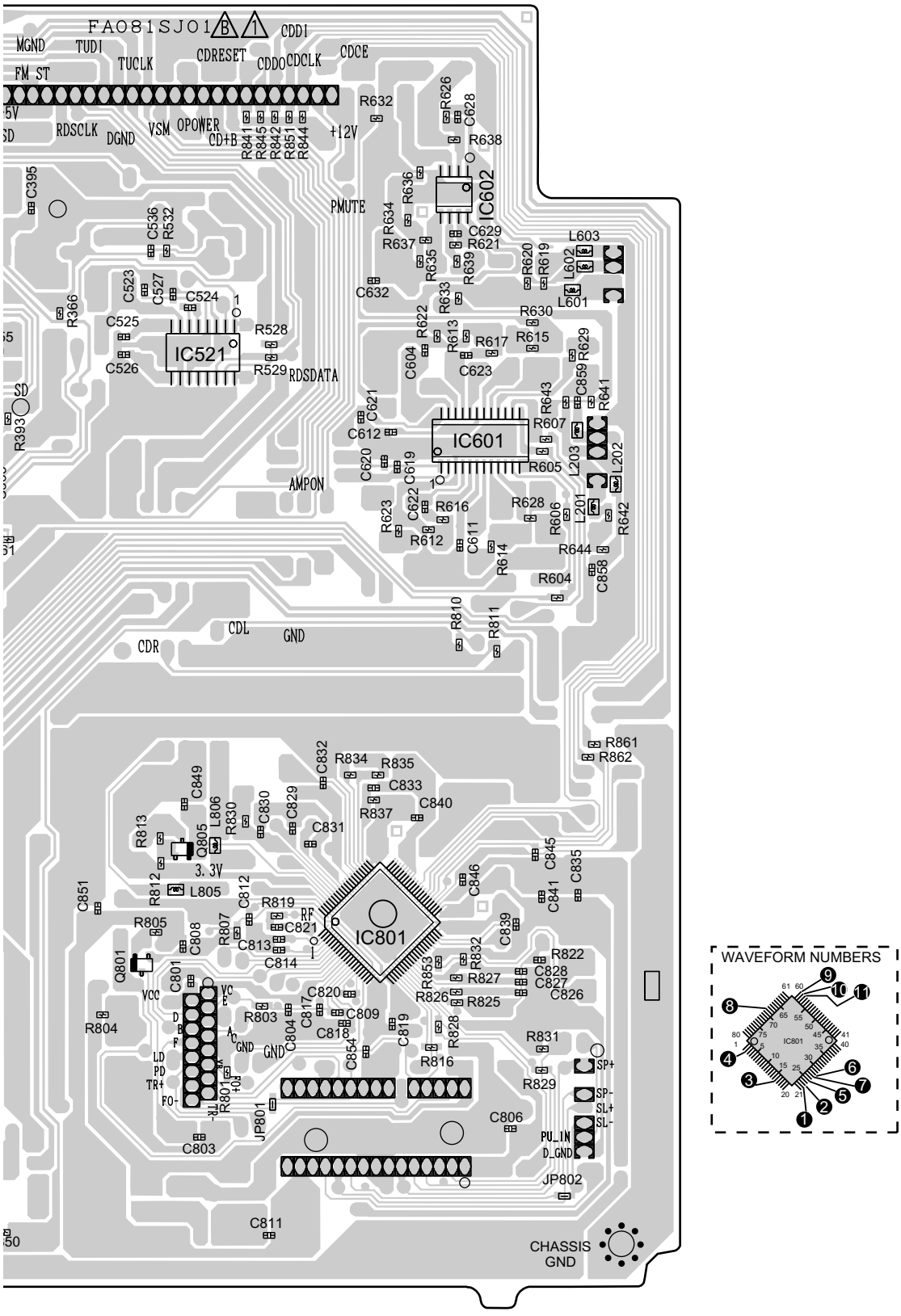


Figure 6-14 WIRING SIDE OF PWB (5/10)

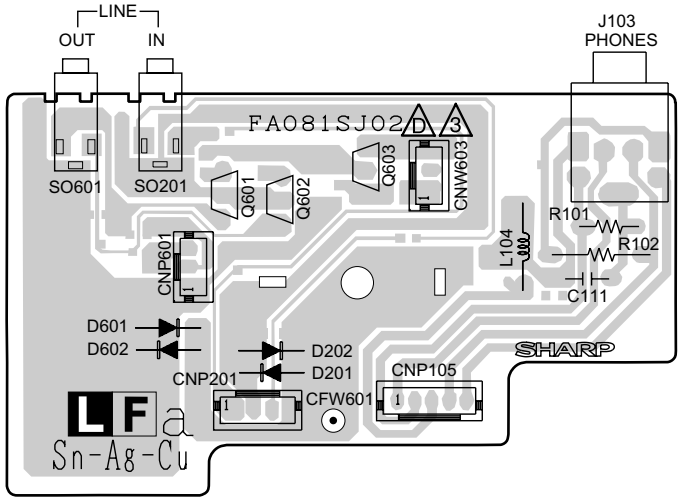


● The numbers ❶ to ⓫ are waveform numbers shown in page 5-1

	7	8	9	10	11	12

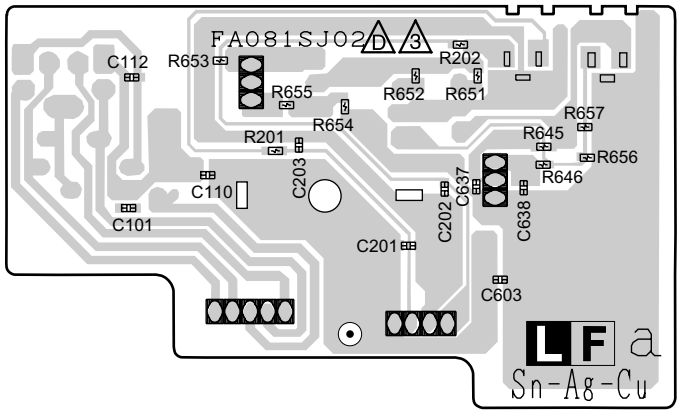
Figure 6-15 WIRING SIDE OF PWB (6/10)

[10] WIRING SIDE OF PWB POWER/JACK



JACK PWB-A2 (TOP VIEW)

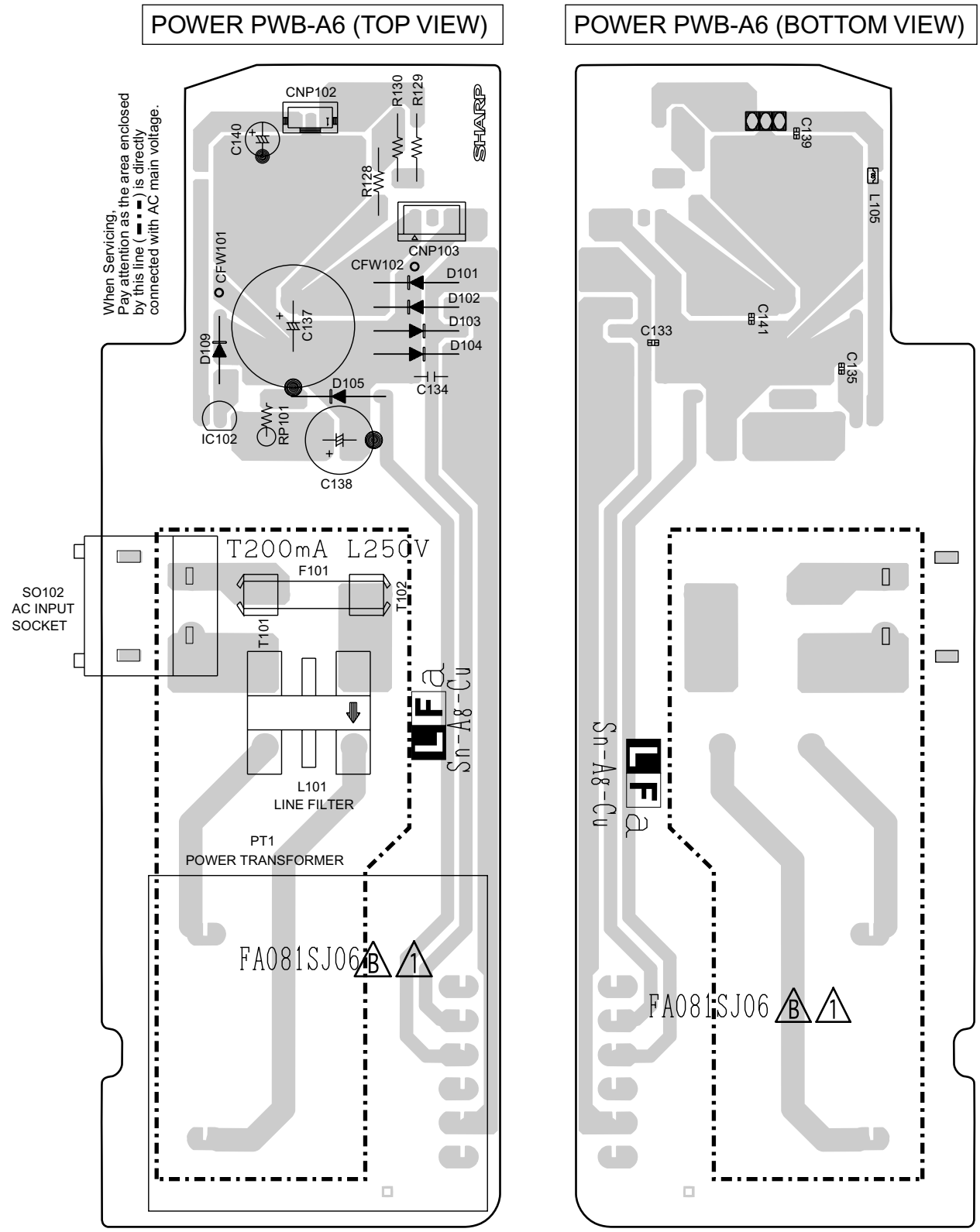
JACK PWB-A2 (BOTTOM VIEW)



Lead-free solder indication

Lead-free solder is used in there POWER, JACK PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

Figure 6-16 WIRING SIDE OF PWB (7/10)

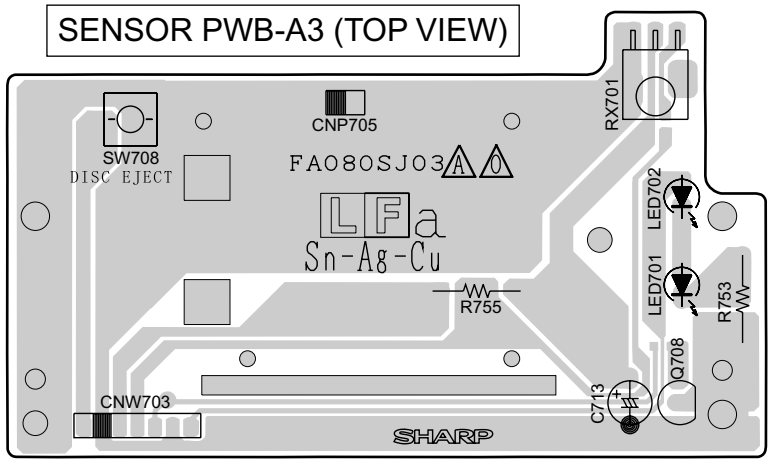


7	8	9	10	11	12

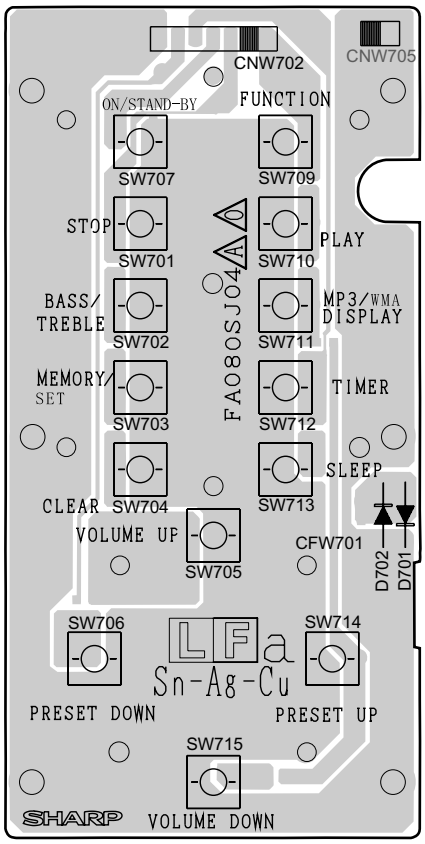
Figure 6-17 WIRING SIDE OF PWB (8/10)

[11] WIRING SIDE OF PWB DISPLAY/SWITCH

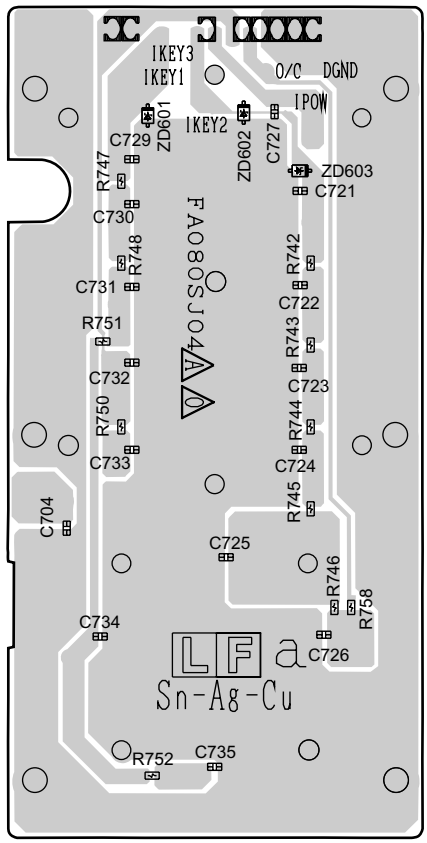
SENSOR PWB-A3 (TOP VIEW)



SWITCH PWB-A4 (TOP VIEW)



SWITCH PWB-A4 (BOTTOM VIEW)

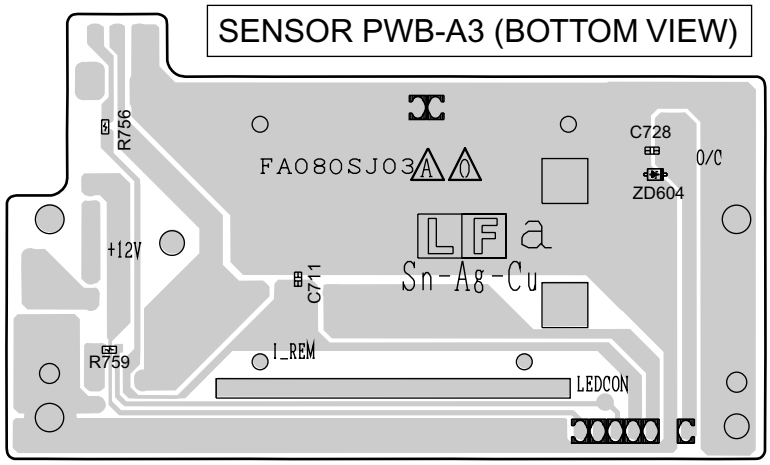


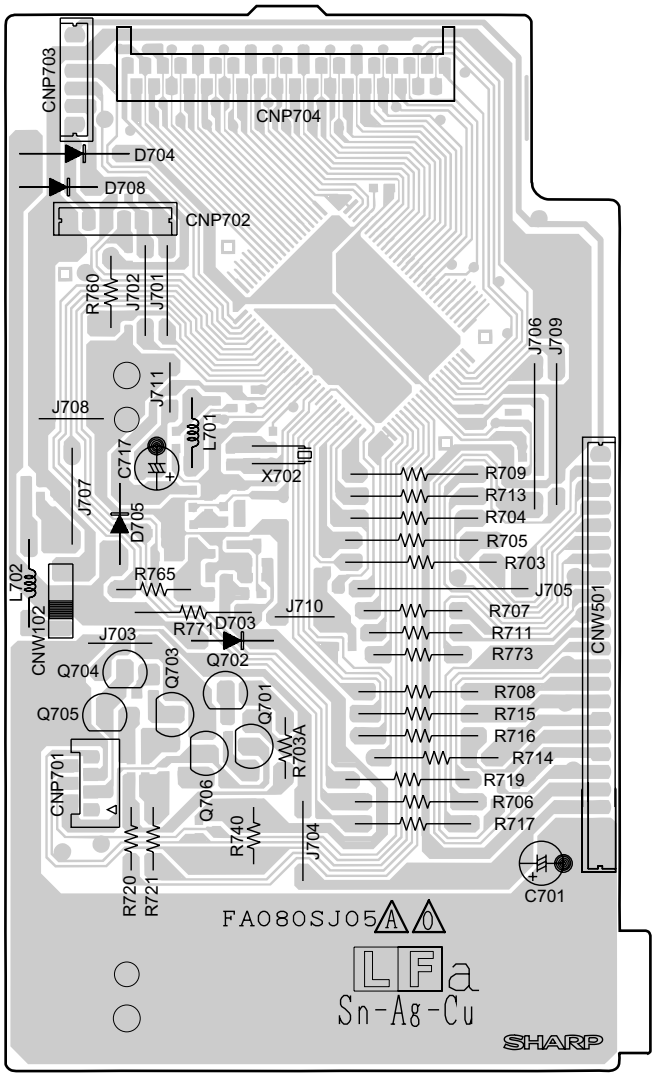
LFa ← Lead-free solder indication

Lead-free solder is used in there DISPLAY,SENSOR,SWITCH PWB.
Refer to "Precautions for handling lead-free solder" for instructions and precautions.

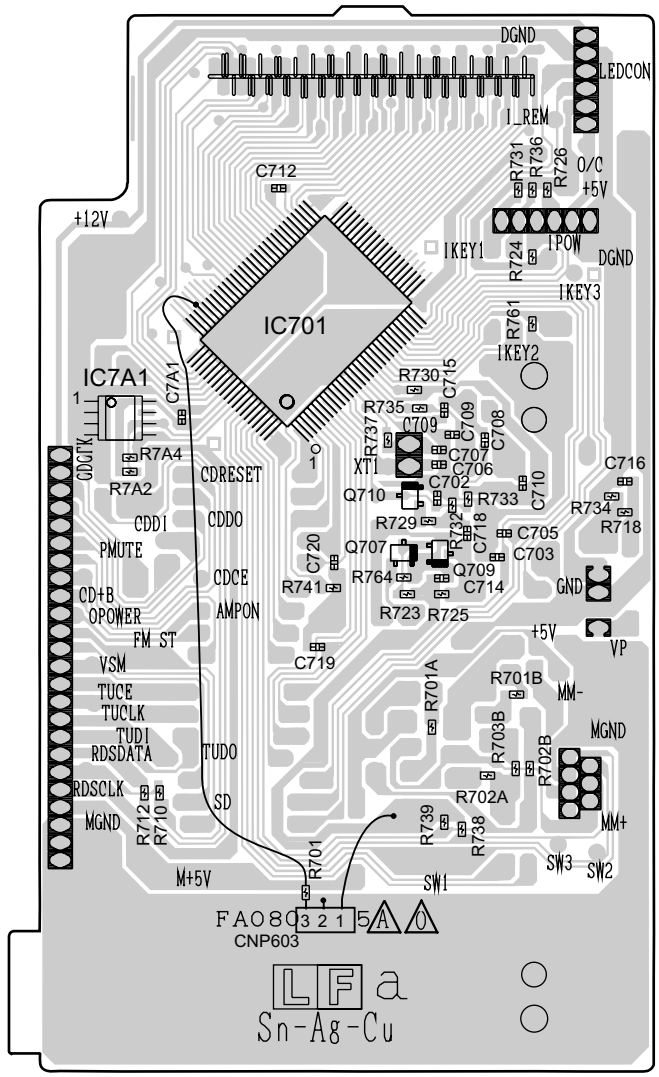
Figure 6-18 WIRING SIDE OF PWB (9/10)

SENSOR PWB-A3 (BOTTOM VIEW)





DISPLAY PWB-A5 (TOP VIEW)



DISPLAY PWB-A5 (BOTTOM VIEW)

	7	8	9	10	11	12

Figure 6-19 WIRING SIDE OF PWB (10/10)

CHAPTER 7. FLOWCHART

[1] TROUBLESHOOTING

1. When the CD does not function

The CD section may not operate when the objective lens of the optical pickup is dirty. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.

Remove the cabinet and follow the trouble shooting instructions.

"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.

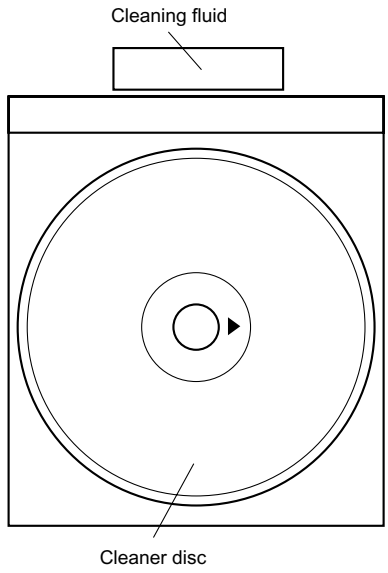
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.

Do not touch the lens with the bare hand.

		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down,then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it still play continuously, press the stop button.



CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please replace the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disc must not be used on car CD players or on computer CD-ROM drives.
- All rights reserved. Unauthorized duplicating, broadcasting and renting this product is prohibited by law.

2. When a CD cannot be played

2.1. Pressing the CD operation key is accepted, but playback does not occur.

1) Focus-HF system check
2) Tracking system check
3) Spin system check
4) PLL system check
5) Others

(1) Focus-HF system check.

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

Press the DISC EJECT switch (SW708) without inserting a disc, and try starting the playback operation.

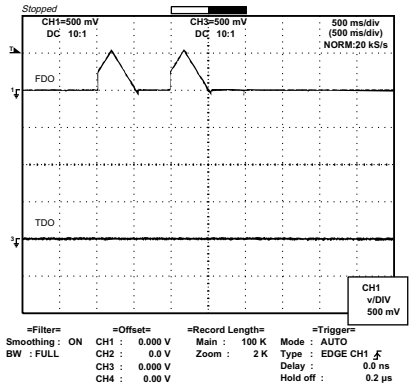


Figure 1

1. Does the pickup move to the PICKUP-IN Switch position?
   - No → Sled motor.
   - Yes ↓
2. Does the focus (lens) move up and down? (Waveform drawing Figure 1)
   - No → Check the focus peripheral circuit.
   - Yes ↓
3. Is the laser lit?
   - No → Check the laser diode driver Q801 peripheral circuit.
   - Yes ↓
4. Is the turntable rotating?
   - No → Spindle motor.

When a disc is loaded, start playback operation.

1. Is focus servo activated? (Waveform drawing Figure 2)
   - No → Pins 5~9,11, 14 and 18,19 on IC801. Check the laser diode driver Q801 peripheral circuit.
   - Yes ↓
2. Does DRF change from "L" to "H"?
   - No → Is the disc rotating?
     - No → Check the spin system.
     - Yes → If the disc is spinning and a HF waveform is generated, DRF will go H.
   - Yes ↓
3. Is the HF waveform normal? (Waveform drawing Figure 3)
   - No → If the level is not normal.

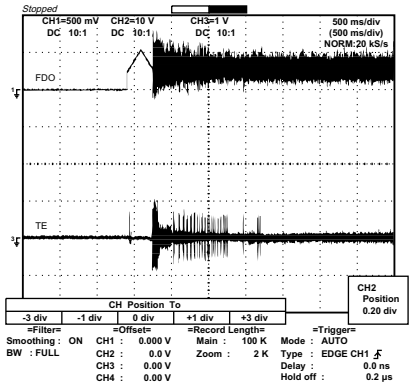


Figure 2

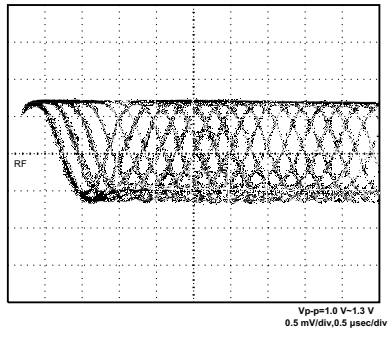


Figure 3

(2) Tracking system check.

Check the TE waveform at pin 16 on IC 801.

If the waveform shown in Figure 4 appears and soon after NO DISC appears?

Yes → The tracking servo is not activated.
Check the peripheral circuits at pins 15, 16 and 23 on IC801, and FC801.

No ↓

"Initialization" is possible, but play is not possible?

Yes → A normal jump operation cannot be completed or the beginning of the track cannot be found.
Check the around pin 23 on IC801.

No ↓

"Initialization" is not possible. → Data cannot be read. Check the VCO-PLL (Pin26~30 on IC801) system.

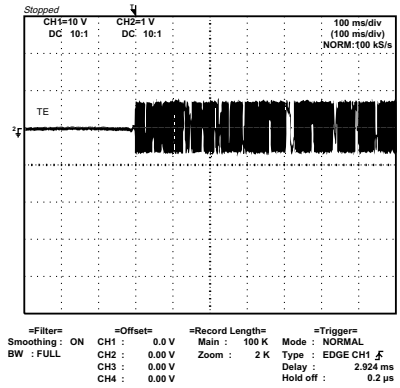


Figure 4

(3) Spin system check.

Press the DISC EJECT switch without inserting a disc, and then try starting the play operation.

1. The turntable rotates a little?
(Waveform drawing Figure 5)

Yes → The spin driver circuit is OK.

No ↓

2. The turntable doesn't rotate. → Check around pin 25 on IC801, pins 10 and 11 on IC802, and CNW402.

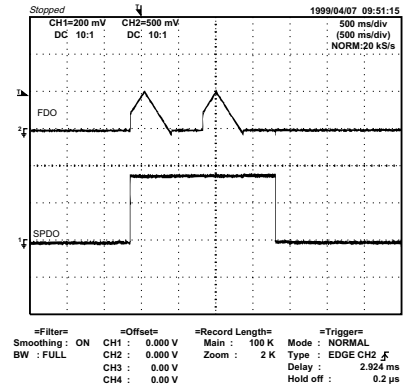


Figure 5

(4) PLL system check.

When a disc is loaded, start play operation.

↓

The HF waveform is normal, but the TOC data cannot be read.

↓

Check the PDOUT waveform. (Figure 6)

↓

Check around pins 26~30 on IC801.

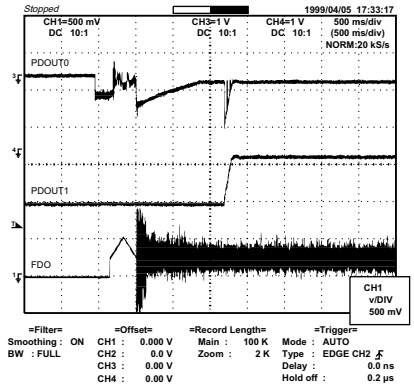


Figure 6

(5) Others.

The HF waveform is normal and the time is displayed normally, but no sound is produced. Or the sound has dropouts.

Is pin 35 (C2F) on IC801 "L"?

No → There are too many error flags on a damaged disc which makes error correction impossible.

↓ Yes

1. When playing at normal speed.
Check the peripheral circuit at pin 69 (DOUT) on IC801 and the waveform (Figure 7).

↓

If OK, Check the unit.

Check again using a known good disc.

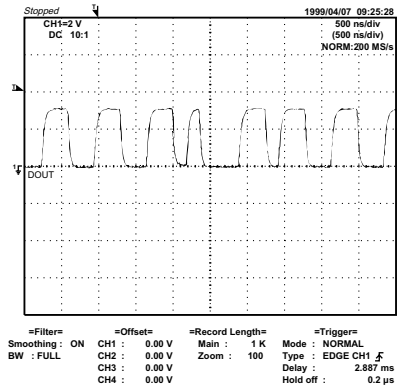


Figure 7

CHAPTER 8. OTHERS

[1] FUNCTION TABLE OF IC

IC601 VHiLC75341M-1: Signal Control (LC75341M)

Pin No.	Terminal Name	Function
1	DI	Serial data and clock input pin for control.
2	CE	Chip enable pin. Data written into an internal latch in a timing of "H" to "L". Each analog switch is activated. Data transfer enabled at "H" level.
3	VSS	Ground pin.
4	LOUT	Bass band filter comprising capacitor and resistor connection pin and bass/treble output pin.
5	LBASS	Bass band filter comprising capacitor and resistor connection pin.
6	LTRE	Treble band filter comprising capacitor and resistor connection pin.
7	LIN	Volume + equaliser output pin.
8	LSEL0	Input selector output pin.
9,10*11 12	L4-1	Input signal pin.

Pin No.	Terminal Name	Function
13,14, 15*,16	R1-4	Input signal pin.
17	RSEL0	Input selector output pin.
18	RIN	Volume + equaliser output pin
19	RTRE	Treble band filter comprising capacitor and resistor connection pin.
20	RBASS	Bass band filter comprising capacitor and resistor connection pin.
21	ROUT	Bass band filter comprising capacitor and resistor connection pin and bass/ treble output pin.
22	VREF	0.5x VDD voltage generation block for analog ground. Capacitor of several 10µF to be connected between VREF and AWSS (VSS) as a countermeasure against power ripple.
23	VDD	Supply pin
24	CL	Serial data and clock input pin for control.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC601 VHiLC75341M-1: Signal Control (LC75341M)

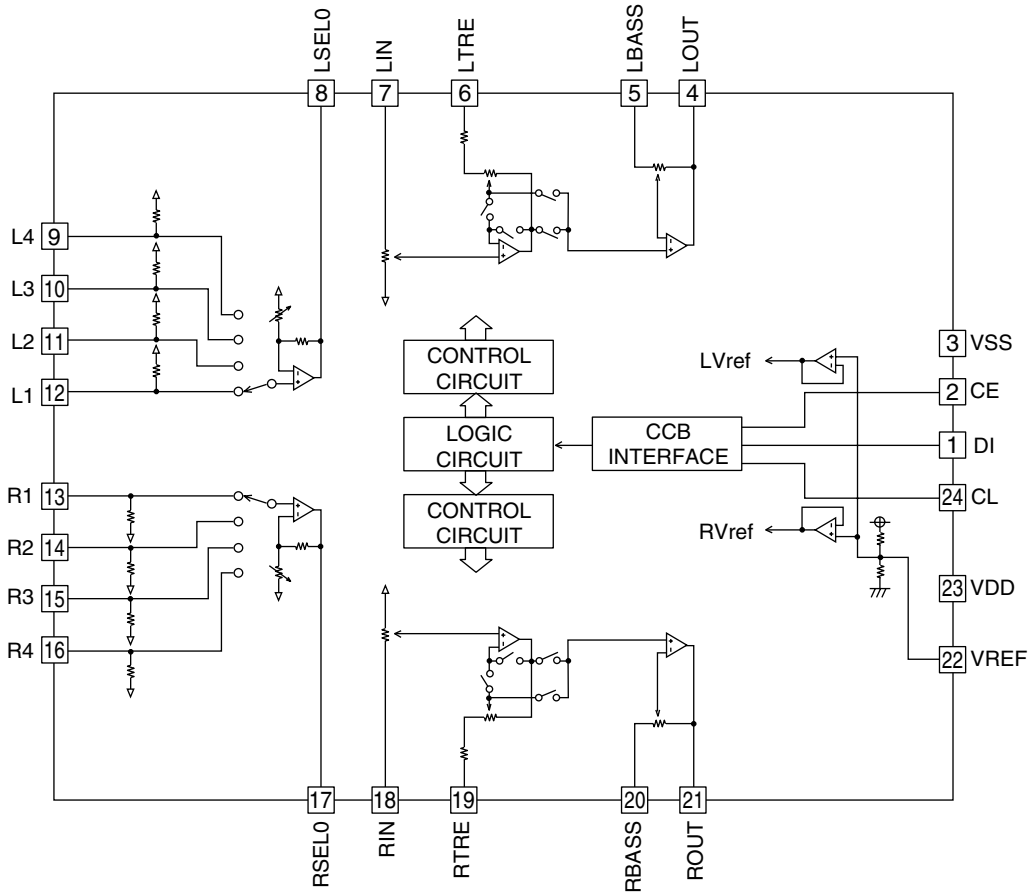


Figure 1 BLOCK DIAGRAM OF IC

IC701 RH-iXA054SJZZ: System Microcomputer (IXA054SJ)

<table>
<tr><th>Pin No.</th><th>Port Name</th><th>Input/Output</th><th>Function</th></tr>
<tr><td>14,55,89</td><td>VSS1,VSS2,VSS3</td><td>-</td><td>• Power supply (-)</td></tr>
<tr><td>17,54,90</td><td>VDD1,VDD2,VDD3</td><td>-</td><td>• Power supply (+)</td></tr>
<tr><td>95,96,97,98,99,100,1,2</td><td>PORT0 P00 to P07</td><td>I/O</td><td>• 8bit input/output port
• Data direction programmable in nibble units
• Use of pull-up resistor can be specified in nibble units
• Input for HOLD release
• Input for port 0 interrupt
• Other functions
P05: clock output (system clock / can selected from sub clock)
P06: timer 6 toggle output
P07: timer 7 toggle output</td></tr>
<tr><td>3,4,5,6,7,8,9,10</td><td>PORT1 P10 to P17</td><td>I/O</td><td>• 8bit input/output port
• Data direction programmable for each bit
• Use of pull-up resistor can be specified for each bit individually
• Other pin functions
P10: SIO0 data output
P11: SIO0 data input / bus input / output
P12: SIO0 clock input / output
P13: SIO1 data output
P14: SIO1 data input / bus input / output
P15: SIO1 clock input / output
P16: Timer 1 PWML output
P17: Timer 1 PWMH output / Buzzer output</td></tr>
<tr><td>87,88,91,92,93,94</td><td>PORT3 P30 to P35</td><td>I/O</td><td>• 6bit input/output port
• Data direction can be specified for each bit
• Use of pull-up resistor can be specified for each bit individually
• Other functions:
P30~ P33: INT4 input / HOLD release input / Timer 1 event input / Timer 0L capture input / Timer 0H capture input
P34 ~ P35: INT5 input / HOLD release input / Timer 1 event input / Timer 0L capture input / Timer 0H capture input
• Interrupt detection selection
<table>
<tr><th></th><th>Rising</th><th>Falling</th><th>Rising/ Falling</th><th>H level</th><th>L level</th></tr>
<tr><td>INT4</td><td>Yes</td><td>Yes</td><td>Yes</td><td>No</td><td>No</td></tr>
<tr><td>INT5</td><td>Yes</td><td>Yes</td><td>Yes</td><td>No</td><td>No</td></tr>
</table></td></tr>
<tr><td>26,27,28,29</td><td>PORT7 P70 to P73</td><td>I/O</td><td>• 4bit input/output port
• Data direction can be specified for each bit
• Use of pull-up resistor can be specified for each bit individually
• Other functions
P70: INT0 input / HOLD release input / Timer0L capture input / Output for watchdog timer
P71 INT1 input / HOLD release input / Timer0H capture input
P72: INT2 input / HOLD release input / Timer 0 event input / Timer0L capture input / High speed clock counter input
P73: INT3 input(noise rejection filter attached input) / Timer 0 event input /Timer 0H capture input
AD input port: AN8(P70), AN9(P71)
• Interrupt detection selection
<table>
<tr><th></th><th>Rising</th><th>Falling</th><th>Rising/ Falling</th><th>H level</th><th>L level</th></tr>
<tr><td>INT0</td><td>Yes</td><td>Yes</td><td>No</td><td>Yes</td><td>Yes</td></tr>
<tr><td>INT1</td><td>Yes</td><td>Yes</td><td>No</td><td>Yes</td><td>Yes</td></tr>
<tr><td>INT2</td><td>Yes</td><td>Yes</td><td>Yes</td><td>No</td><td>No</td></tr>
<tr><td>INT3</td><td>Yes</td><td>Yes</td><td>Yes</td><td>No</td><td>No</td></tr>
</table></td></tr>
<tr><td>18,19,20,21,22,23,24,25</td><td>PORT8 P80 to P87</td><td>I/O</td><td>• 8bit input/output port
• Input/output can be specified in a bit unit individually
• Other functions:
AD input port: AN0 to AN7
Small signal detector input port: MICIN(P87)</td></tr>
<tr><td>30,31*,32*,33*,34*,35*,36*,37</td><td>S0/PA0 to S7/PA7</td><td>I/O</td><td>• Segment output for LCD
• Can be used as general purpose input/output port (PA)</td></tr>
</table>

Pin No.	Port Name	Input/Output	Function
38,39,40,41,42,43,44,45	S8/PB0 to S15/PB7	I/O	• Segment output for LCD • Can be used as general purpose input/output port (PB)
46,47,48,49,50,51,52,53	S16/PB0 to S23/PC7	I/O	• Segment output for LCD • Can be used as general purpose input/output port (PC)
56,57,58,59,60,61,62,63	S24/PD0 to S31/PD7	I/O	• Segment output for LCD • Can be used as general purpose input/output port (PD)
64,65,66,67,68,69,70,71	S32/PE0 to S39/PE7	I/O	• Segment output for LCD • Can be used as general purpose input/output port (PE)
72*,73*,74*,75*,76*,77*,78*,79	S40/PF0 to S47/PF7	I/O	• Segment output for LCD • Can be used as general purpose input/output port (PF)
83,84,85,86	COM0/PL0 to COM3/PL3	I/O	• Common output for LCD • Can be used as general purpose input port (PL)
80*,81*,82*	V1/PL4 to V3/PL6	I/O	• LCD output bias power supply • Can be used as general purpose input port (PL) • Other functions: AD input ports: AN12 to AN14
11	$\overline{\text{RES}}$	I	Reset terminal
12	XT1	I	• Input for 32.768kHz crystal oscillation • Other functions: General purpose input port AD input port: AN10 • When not in use, connect to VDD1
13	XT2	I/O	• Output for 32.768kHz crystal oscillation • Other functions: General purpose input port AD input port: AN11 • When not in use, set to oscillation mode and leave open
15	CF1	I	Input terminal for ceramic oscillator
16	CF2	O	Output terminal for ceramic oscillator

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC701 RH-iXA054SJZZ: System Microcomputer (IXA054SJ)

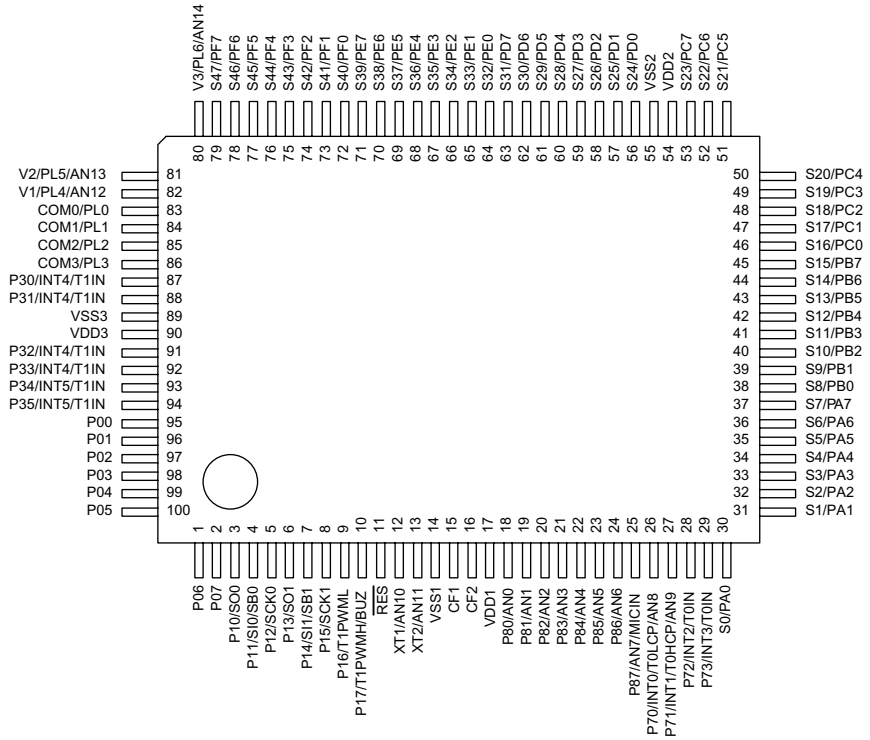


Figure 2 BLOCK DIAGRAM OF IC

IC801 VHiLC7890/-1: MP3 Decoder Digital Signal Processor (LC78690)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
1	EFMIN	Input	Input	RF signal input.	
2	RFOUT	Output	Unfix	RF signal output.	
3	LPF	Output	Unfix	To LPF capacitor for detecting DC level of RF signal.	
4	PHLPF	Output	Unfix	To LPF capacitor for detecting scratch.	
5	AIN	Input	Input	A signal input.	
6	CIN	Input	Input	C signal input.	
7	BIN	Input	Input	B signal input.	
8	DIN	Input	Input	D signal input.	
9	FEC	Output	Unfix	To LPF capacitor for FE signal.	
10*	RFMON	Output	Unfix	Monitoring for LSI internal analog signal.	
11	VREF	Output	AVDD/2	VREF voltage output.	
12	JITTC	Output	Unfix	For jitter detection capacitor.	
13	EIN	Input	Input	E signal input.	
14	FIN	Input	Input	F signal input.	
15	TEC	Output	Unfix	To LPF capacitor for TE signal.	
16	TE	Output	Unfix	TE signal output.	
17	TEIN	Input	Input	TE signal input for TES signal generation.	
18	LDD	Output	Unfix	Laser power control signal output.	
19	LDS	Input	Input	Laser power detection signal input.	
20	AVSS	-	-	Analog GND. Connected to 0V.	
21	AVDD	-	-	Analog power supply.	
22	FDO	Output	AVDD/2	Focus control signal output. D/A output.	
23	TDO	Output	AVDD/2	Tracking control signal output. D/A output.	
24	SLDO	Output	AVDD/2	Sled control signal output. D/A output.	
25	SPDO	Output	AVDD/2	Spindle control signal output. D/A output.	
26	VVSS1	-	-	For EFM PLL	GND for built-in VCO. Connected to 0V.
27	PDOUT1	Output	Unfix		Phase comparison output pin 1 for built-in VCO control.
28	PDOUT0	Output	Unfix		Phase comparison output pin 0 for built-in VCO control.
29	PCKIST	Input	Input		To resistance for current setting of PDOUT0, 1 output.
30	VVDD1	-	-		Power supply for built-in VCO
31*	DMUTEB	Output	L	DMUTEB (general-purpose) output	
32	PUIN	Input/Output	Input	PUIN (general-purpose) input/output (Built-in Pull-Up resistance)	
33*	DEFECT	Output	L	Scratch detection signal output	
34*	FSEQ	Output	L	Sync signal output. Switches to "H" when sync signal detected from EFM signal and sync signal generated internally are the same.	
35*	C2F	Output	L	C2 error signal output.	
36	DVDD	-	-	Digital power supply.	
37	DVSS	-	-	Digital GND. Connected to 0V.	
38	DVDD1.8	Output	H	To power supply capacitor for digital circuit.	
39	VVDD3	-	-	Power supply for built-in PLL.	
40	VVSS3	-	-	GND for built-in PLL. Connected to 0V.	
41	DVDD	-	-	Digital power supply.	
42	DVSS	-	-	Digital GND. Connected to 0V.	
43	CE	Input	Input	For micro-processor interface	Enable signal input.
44	CL	Input	Input		Data transfer clock input.
45	DI	Input	Input		Data input
46	DO	Output	(H)		Data output (Tri-state output: Built-in Pull-Up resistance)
47	RESB	Input	-	Reset input for this LSI. Set as "L" when turning power on.	
48*	INTB0	Output	H	Interrupt signal output pin 0 (Servo section)	
49*	INTB1	Output	H	Interrupt signal output pin 1 (Decoder section)	
50	CONT2	Input/Output	Input	General-purpose input/ output pin 2	Controlled by command from microprocessor. When not in use, set as input and connect to 0V, or set as output and leave open.
51*	CONT1	Input/Output	Input	General-purpose input/ output pin 1	
52*	CONT0	Input/Output	Input	General-purpose input/ output pin 0 (Built-in Pull-Up resistance)	
53	TEST0	Input	L	Input for testing. Connected to 0V.	
54	STREQ	Input/Output	Input	Stream data request signal output.	
55	STCK	Input/Output	Input	Bit clock input for stream data.	
56	STDATA	Input/Output	Input	Stream data input.	
57	TEST1	Input	L	Input for testing. Connected to 0V.	
58*	DATA	Output	L	L/R channel data output.	
59*	DATACK	Output	L	Bit clock output	

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
60*	LRSY	Output	L	L/R ch clock output	
61	VVDD2	-	-	For EFM PLL	Power supply for built-in VCO
62	VPREF2	Input	Input		Input for oscillation range setting of built-in VCO.
63	VCOC2	Input	Input		Input for control voltage setting of built-in VCO.
64	VPDOUT2	Output	Unfix		Output for controlling built-in VCO.
65	VVSS2	-	-		GND for built-in VCO. Connected to 0V.
66	DVDD1.8	Output	H	To power supply capacitor for digital circuit.	
67	DVSS	-	-	Digital GND. Connected to 0V.	
68	DVDD	-	-	Digital power supply.	
69*	DOUT	Output	L	Digital OUT output. EIAJ format.	
70*	AMUTEB	Output	L	AMUTEB (general-purpose) output.	
71	XVSS	-	-	Digital GND. Connected to 0V.	
72	XOUT	Output	Oscillator	For crystal oscillation	To 16.9344 MHz oscillator
73	XIN	Input	Oscillator		
74	XVDD	-	-	Digital power supply	
75	LCHO	Output	LRVDD/2	D/A converter	L channel output.
76	LRVDD	-	-		Power supply for LR channel.
77	LRVSS	-	-		GND for LR channel. Connected to 0V.
78	RCHO	Output	LRVDD/2		R channel output.
79	AVDD	-	-	Analog power supply.	
80	SLCO	Output	Unfix	Slice level control output.	

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

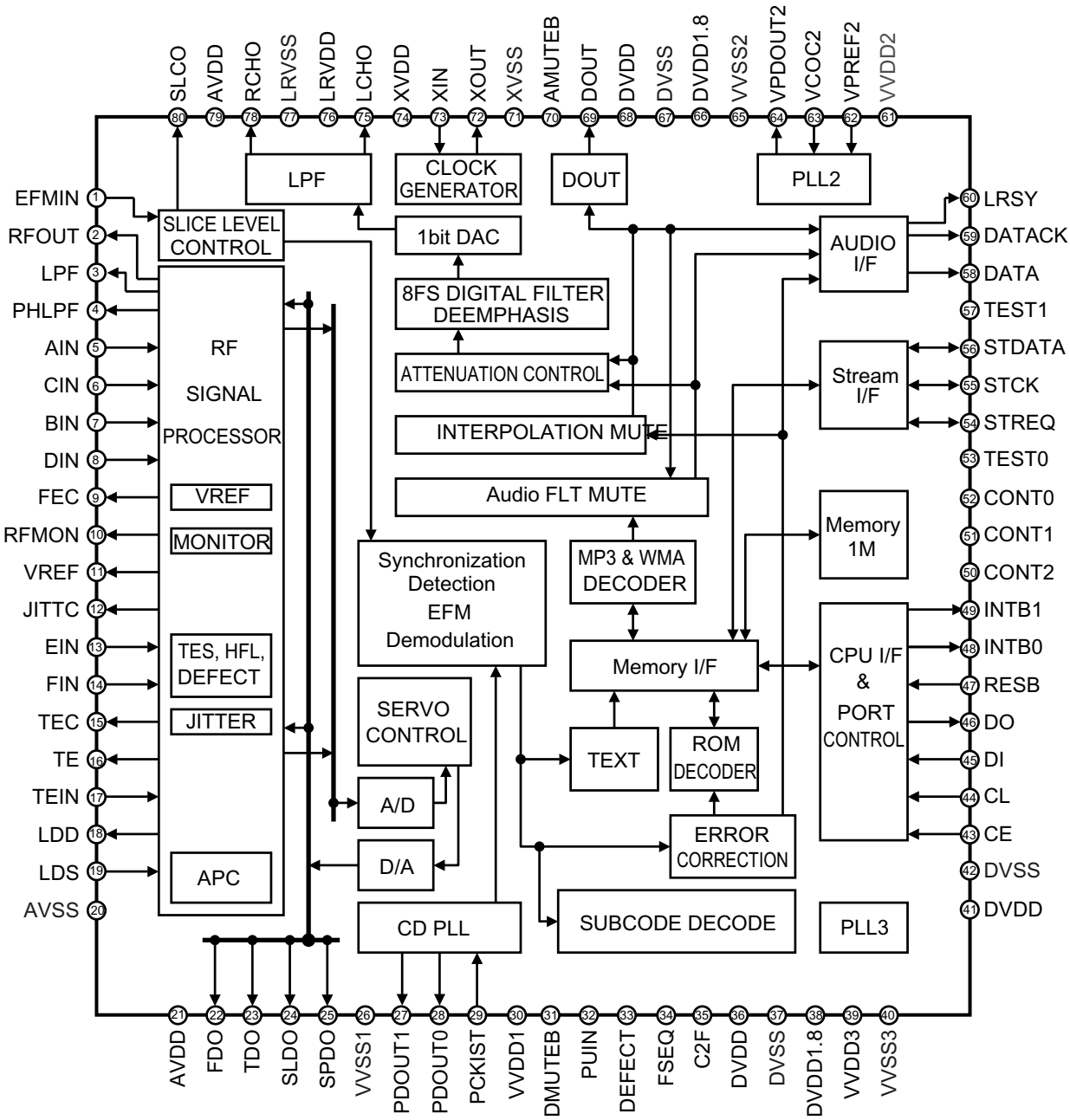
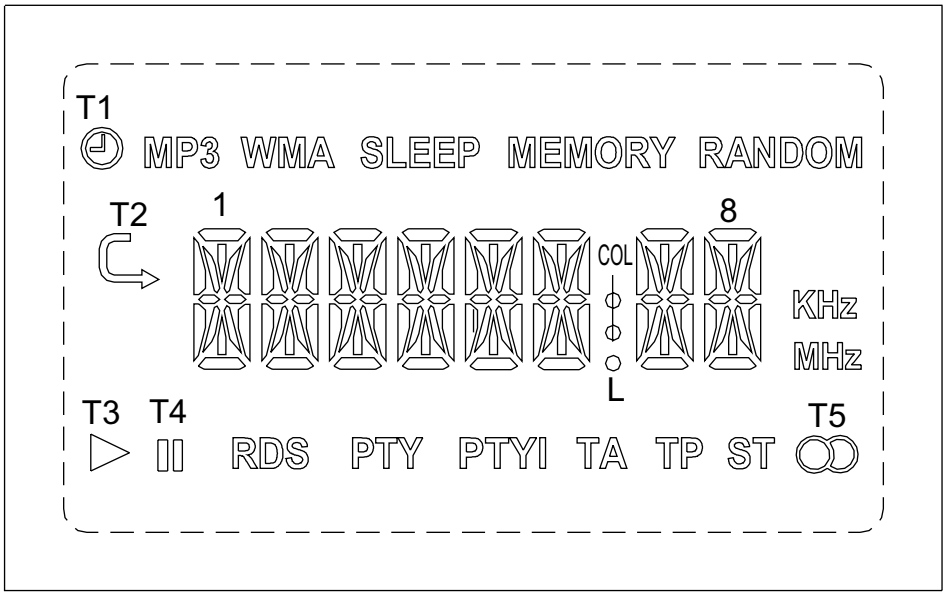
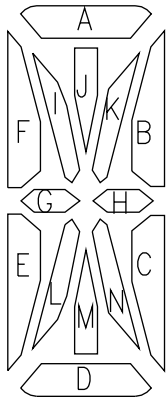


Figure 3 BLOCK DIAGRAM OF IC

[2] FL DISPLAY

LCD701: RV-LXA011SJZZ





PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
COM1	COM1	/	/	/	T4	1E	1D	1M	RDS	2E	2D	2M	PTY	3E
COM2	/	COM2	/	/	T3	1G	1L	1N	1C	2G	2L	2N	2C	3G
COM3	/	/	COM3	/	T2	1I	1J	1H	1B	2I	2J	2H	2B	3I
COM4	/	/	/	COM4	T1	1F	1A	1K	MP3	2F	2A	2K	WMA	3F

PIN	15	16	17	18	19	20	21	22	23	24	25	26	27	28
COM1	3D	3M	PTYI	4E	4D	4M	TA	5E	5D	5M	TP	6E	6D	6M
COM2	3L	3N	3C	4G	4L	4N	4C	5G	5L	5N	5C	6G	6L	6N
COM3	3J	3H	3B	4I	4J	4H	4B	5I	5J	5H	5B	6I	6J	6H
COM4	3A	3K	SLEEP	4F	4A	4K	MEMORY	5F	5A	5K	RANDOM	6F	6A	6K

PIN	29	30	31	32	33	34	35	36	37
COM1	P	7E	7D	7M	ST	8E	8D	8M	T5
COM2	6C	7G	7L	7N	7C	8G	8L	8N	8C
COM3	6B	7I	7J	7H	7B	8I	8J	8H	8B
COM4	COL	7F	7A	7K	MHz	8F	8A	8K	KHz

SHARP PARTS GUIDE

MICRO COMPONENT SYSTEM

MODEL XL-MP9H

XL-MP9H Micro Component System consisting of XL-MP9H (main unit) and CP-MP8H (speaker system).

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Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

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The contents are subject to change without notice.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[1] INTEGRATED CIRCUITS					
IC7A1	VHiAT24C04/-1	AH			EEPROM,AT24C04
IC101	VHiLA4631++-1	AM			Power Amp.,LA4631++
IC102	VHiAN78L05/-1	AE			Constant Voltage Regulator,AN78L05
IC302	VHiLC72131/-1	AP			PLL (Tuner),LC72131
IC303	VHiLA1832S/-1	AN			FM IF Det./FM Mpx./AM IF,LA1832S
IC521	VHiLC72723M-1	AS			RDS,LC72723M
IC601	VHiLC75341M-1	AM			Signal Control Audio Processor,LC75341M
IC602	VHiNJM14558-1	AF			Pre. Amp.,NJM14558
IC701	RH-iXA054SJZZ	AY			System Microcomputer,IXA054SJ
IC801	VHiLC78690/-1	BE			MP3 Decoder Digital Signal Processor,LC78690
IC802	VHiLA6548ND-1	AL			Focus/Tracking/Spin/Sled Driver,LA6548ND
[2] TRANSISTORS					
Q101	VS2SB1370E+-1	AG			Silicon,PNP,2SB1370 E+
Q102	VS2SC3052F+-1	AD			Silicon,NPN,2SC3052 F+
Q103	VS2SC3052F+-1	AD			Silicon,NPN,2SC3052 F+
Q104	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q105	VS2HA1015GR-1	AB			Silicon,PNP,2HA1015 GR
Q106	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q107	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q108	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q109	VSKTC3203Y/-1	AC			Silicon,NPN,KTC3203 Y
Q301	VS2SC380-O/-1	AC			Silicon,NPN,2SC380 O
Q351	VSKRC104M//-1	AC			Digital,NPN,KRC104 M
Q360	VS2HA1015GR-1	AB			Silicon,PNP,2HA1015 GR
Q521	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q601	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q602	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q603	VSKRA107M//-1	AE			Digital,NPN,KRA 107 M
Q701	VSKTA1271Y/-1	AC			Silicon,PNP,KTA1271 Y
Q702	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q703	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q704	VSKTA1271Y/-1	AC			Silicon,PNP,KTA1271 Y
Q705	VSKTC3203Y/-1	AC			Silicon,NPN,KTC3203 Y
Q706	VSKTC3203Y/-1	AC			Silicon,NPN,KTC3203 Y
Q707	VS2SC3052F+-1	AD			Silicon,NPN,2SC3052 F+
Q708	VS2SC5395F+-1	AD			Silicon,NPN,2SC5395 F+
Q709	VS2SC3052F+-1	AD			Silicon,NPN,2SC3052 F+
Q710	VS2SC3052F+-1	AD			Silicon,NPN,2SC3052 F+
Q801	VS2SA1235F+-1	AD			Silicon,PNP,2SA1235 F+
Q802	VSKTC3203Y/-1	AC			Silicon,NPN,KTC3203 Y
Q803	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q805	VS2SC3052F+-1	AD			Silicon,NPN,2SC3052 F+
Q806	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q808	VS2HC1815GR-1	AB			Silicon,NPN,2HC1815 GR
Q809	VSKTC3205Y/-1	AD			Silicon,NPN,KTC3205 Y
Q810	VS2HA1015GR-1	AB			Silicon,PNP,2HA1015 GR
[3] DIODES					
D101	VHD1N5395//-1	AB			Silicon,1N5395
D102	VHD1N5395//-1	AB			Silicon,1N5395
D103	VHD1N5395//-1	AB			Silicon,1N5395
D104	VHD1N5395//-1	AB			Silicon,1N5395
D105	VHD1N4004//-1	AB			Silicon,1N4004
D109	VHD1N4004//-1	AB			Silicon,1N4004
D110	VHD1SS133//-1	AA			Silicon,1SS133
D112	VHD1N4148//-1	AA			Silicon,1N4148
D113	VHD1N4148//-1	AA			Silicon,1N4148
D114	VHD1N4148//-1	AA			Silicon,1N4148
D201	VHD1N4148//-1	AA			Silicon,1N4148
D202	VHD1N4148//-1	AA			Silicon,1N4148
D301	VHD1N4148//-1	AA			Silicon,1N4148
D302	VHD1N4148//-1	AA			Silicon,1N4148
D303	VHD1N4148//-1	AA			Silicon,1N4148
D304	VHD1N4148//-1	AA			Silicon,1N4148
D308	VHD1N4148//-1	AA			Silicon,1N4148
D521	VHD1N4148//-1	AA			Silicon,1N4148
D601	VHD1N4148//-1	AA			Silicon,1N4148
D602	VHD1N4148//-1	AA			Silicon,1N4148
D701	VHD1N4148//-1	AA			Silicon,1N4148
D702	VHD1N4148//-1	AA			Silicon,1N4148
D703	VHD1N4148//-1	AA			Silicon,1N4148
D704	VHD1N4148//-1	AA			Silicon,1N4148
D705	VHD1N4148//-1	AA			Silicon,1N4148
D708	VHD1N4148//-1	AA			Silicon,1N4148
D801	VHD1N4148//-1	AA			Silicon,1N4148
D802	VHD1N4148//-1	AA			Silicon,1N4148
D803	VHD1N4004//-1	AB			Silicon,1N4004
D804	VHD1N4004//-1	AB			Silicon,1N4004
D805	VHD1N5395//-1	AB			Silicon,1N5395
LED701	VHPLPBB73VQ-1	AF			LED,White,LPBB73VQ
LED702	VHPLPBB73VQ-1	AF			LED,White,LPBB73VQ
VD301	VHCSVC348S/-1	AK			Variable Capacitance,SVC348S
ZD111	VHEDZH11B1+-1	AB	N		Zener,10V,DZH11B1+
ZD115	VHEDZH05C2+-1	AB			Zener,5.1V,DZH05C2+

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] DIODES					
ZD351	VHEDZH05C2+-1	AB			Zener,5.1V,DZH05C2+
ZD701	VHEMM3Z6V2+-1		N		Zener,6.2V,MM3Z6V2+
ZD702	VHEMM3Z6V2+-1		N		Zener,6.2V,MM3Z6V2+
ZD703	VHEMM3Z6V2+-1		N		Zener,6.2V,MM3Z6V2+
ZD704	VHEMM3Z6V2+-1		N		Zener,6.2V,MM3Z6V2+
ZD801	VHEDZH05C2+-1	AB			Zener,5.1V,DZH05C2+
ZD802	VHEDZH04B2+-1	AB			Zener,3.9V,DZH04B2+
ZD803	VHEDZH09A2+-1	AB	N		Zener,8.2V,DZH09A2+
[4] FILTERS					
CF301	RFiLFA001SJZZ	AE			FM IF
CF302	RFiLFA001SJZZ	AE			FM IF
CF351	RFiLF0003AWZZ	AK			FM IF
CF352	RFiLA0003SJZZ	AF			AM IF
[5] TRANSFORMERS					
⚠ PT1	RTRNPA045SJZZ	AX	N		Power
T302	RCiLAA002SJZZ	AC			AM Antenna
T306	RCiLBA006SJZZ	AC			AM OSC.
T351	RCiLiA002SJZZ	AC			AM IF
[6] COILS					
⚠ L101	RCiLZ0005SJZZ	AF			Line Filter
L102	RCiLZA001SJZZ	AC			Line Filter
L103	RCiLZA001SJZZ	AC			Line Filter
L104	VP-DH1R0K0000	AC			1 μH
L105	RCiLCA004SJZZ	AB			3.3 μH
L201	RCiLCA004SJZZ	AB			3.3 μH
L202	RCiLCA004SJZZ	AB			3.3 μH
L203	RCiLCA004SJZZ	AB			3.3 μH
L341	RBLN-0001SJZZ	AE			Balun
L342	VP-DH2R2K0000	AB			2.2 μH,Peaking
L351	VP-DH101K0000	AB			100 μH,Choke
L352	VP-DH101K0000	AB			100 μH,Choke
L353	VP-DH102K0000	AB			1 mH,Choke
L354	RFiLL0001SJZZ	AF			Low Pass Filter
L502	VP-DHR82K0000	AE			0.82 μH,Choke
L521	VP-DH2R2K0000	AB			2.2 μH,Peaking
L601	RCiLCA004SJZZ	AB			3.3 μH
L602	RCiLCA004SJZZ	AB			3.3 μH
L603	RCiLCA004SJZZ	AB			3.3 μH
L701	VP-DH220K0000	AB			22 μH,Choke
L702	VP-DH2R2K0000	AB			2.2 μH,Peaking
L801	VP-DH2R2K0000	AB			2.2 μH,Peaking
L804	VP-DHR82K0000	AE			0.82 μH,Choke
L805	RBLN-A003SJZZ	AB			Ferrite Bead,1 kohms
L806	RBLN-A003SJZZ	AB			Ferrite Bead,1 kohms
[7] VIBRATORS					
X351	RCRM-0007SJZZ	AG			VCO,456 kHz
X352	RCRSP0003SJZZ	AL			Crystal,4.5 MHz
X521	RCRSP0005SJZZ	AF			Crystal,456 kHz
X702	RCRSP0007SJZZ	AE			Crystal,32.768 kHz
X801	RCRSP0002SJZZ	AL			Crystal,16.93 MHz
[8] CAPACITORS					
C7A1	VCKYCY1EF104Z	AA			0.1 μF,25V
C101	VCKYCY1EF473Z	AB			0.047 μF,25V
C102	VCKYCY1HB472K	AA			0.0047 μF,50V
C103	VCKYCY1HB472K	AA			0.0047 μF,50V
C104	VCKYCY1EF104Z	AA			0.1 μF,25V
C105	VCKYCY1EF104Z	AA			0.1 μF,25V
C106	VCKYCY1HB472K	AA			0.0047 μF,50V
C107	VCKYCY1HB472K	AA			0.0047 μF,50V
C108	VCKYCY1EF104Z	AA			0.1 μF,25V
C109	VCKYCY1EF104Z	AA			0.1 μF,25V
C110	VCKYCY1HB472K	AA			0.0047 μF,50V
C111	VCKYPA1HB331K	AA			330 pF,50V
C112	VCKYCY1HB331K	AA			330 pF,50V
C115	RC-GZV108AF1E	AD			1000 μF,25V,Electrolytic
C116	RC-GZV108AF1E	AD			1000 μF,25V,Electrolytic
C117	RC-GZA226AF1H	AB			22 μF,50V,Electrolytic
C118	RC-GZA226AF1C	AB			22 μF,16V,Electrolytic
C119	RC-GZA107AF1C	AB			100 μF,16V,Electrolytic
C120	VCKYCY1EF104Z	AA			0.1 μF,25V
C121	RC-GZA475AF1H	AB			4.7 μF,50V,Electrolytic
C122	RC-GZA475AF1H	AB			4.7 μF,50V,Electrolytic
C123	RC-GZA105AF1H	AB			1 μF,50V,Electrolytic
C124	VCKYCY1HB103K	AA			0.01 μF,50V
C125	RC-GZA105AF1H	AB			1 μF,50V,Electrolytic
C126	RC-GZA476AF1E	AB			47 μF,25V,Electrolytic
C127	VCTYPA1CX223K	AA			0.022 μF,16V
C128	VCKYCY1EF104Z	AA			0.1 μF,25V
C129	RC-GZV228AF1C	AG			2200 μF,16V,Electrolytic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] CAPACITORS					
C130	VCKYCY1HB472K	AA			0.0047 μ F,50V
C131	VCKYCY1HB472K	AA			0.0047 μ F,50V
C132	VCKYCY1HB472K	AA			0.0047 μ F,50V
C133	VCKYCY1EF104Z	AA			0.1 μ F,25V
C134	VCKYPA1HB104K	AC			0.1 μ F,50V
C135	VCKYCY1HB472K	AA			0.0047 μ F,50V
C137	RC-GZW338AF1V	AH			3300 μ F,35V,Electrolytic
C138	RC-GZW228AF1E	AE			2200 μ F,25V,Electrolytic
C139	VCKYCY1HB473K	AB			0.047 μ F,50V
C140	RC-GZA476AF1E	AB			47 μ F,25V,Electrolytic
C141	VCKYCY1HB473K	AB			0.047 μ F,50V
C142	VCKYCY1HB331K	AA			330 pF,50V
C143	VCKYCY1HB331K	AA			330 pF,50V
C144	VCKYCY1HB331K	AA			330 pF,50V
C201	VCKYCY1HB472K	AA			0.0047 μ F,50V
C202	VCKYCY1HB331K	AA			330 pF,50V
C203	VCKYCY1HB331K	AA			330 pF,50V
C301	VCKYCY1EF123Z	AA			0.012 μ F,25V
C302	VCKYCY1HB102K	AA			0.001 μ F,50V
C329	VCKYCY1EF223Z	AB			0.022 μ F,25V
C330	VCCCPA1HH120J	AA			12 pF (CH),50V
C331	VCKYCY1EF473Z	AB			0.047 μ F,25V
C332	VCKYPA1HF223Z	AB			0.022 μ F,50V
C334	VCCUPA1HJ270J	AA			27 pF (UJ),50V
C335	VCKYCY1HB561K	AA			560 pF,50V
C337	VCKYPA1HF223Z	AB			0.022 μ F,50V
C341	VCKYCY1EF223Z	AB			0.022 μ F,25V
C343	VCCSCY1HL330J	AD			33 pF,50V
C344	VCCSCY1HL330J	AD			33 pF,50V
C345	VCKYCY1EF223Z	AB			0.022 μ F,25V
C346	VCKYCY1EF223Z	AB			0.022 μ F,25V
C347	VCKYCY1EF223Z	AB			0.022 μ F,25V
C348	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C349	VCKYCY1HB102K	AA			0.001 μ F,50V
C350	VCKYCY1EF223Z	AB			0.022 μ F,25V
C351	VCKYCY1EF223Z	AB			0.022 μ F,25V
C352	RC-GZA106AF1C	AB			10 μ F,16V,Electrolytic
C353	VCKYCY1EF223Z	AB			0.022 μ F,25V
C354	VCKYCY1EF223Z	AB			0.022 μ F,25V
C355	VCCSCY1HL220J	AD			22 pF,50V
C356	VCKYCY1HB102K	AA			0.001 μ F,50V
C357	RC-GZA225AF1H	AB			2.2 μ F,50V,Electrolytic
C358	RC-GZA105AF1H	AB			1 μ F,50V,Electrolytic
C360	VCKYCY1EF223Z	AB			0.022 μ F,25V
C361	VCKYCY1EF223Z	AB			0.022 μ F,25V
C362	RC-GZA335AF1H	AB			3.3 μ F,50V,Electrolytic
C363	VCKYCY1EF223Z	AB			0.022 μ F,25V
C364	RC-GZA106AF1C	AB			10 μ F,16V,Electrolytic
C365	VCKYCY1EF223Z	AB			0.022 μ F,25V
C366	VCKYCY1HB102K	AA			0.001 μ F,50V
C367	RC-GZA105AF1H	AB			1 μ F,50V,Electrolytic
C368	RC-GZA105AF1H	AB			1 μ F,50V,Electrolytic
C369	VCCSCY1HL560J	AD			56 pF,50V
C370	RC-GZA105AF1H	AB			1 μ F,50V,Electrolytic
C371	RC-GZA105AF1H	AB			1 μ F,50V,Electrolytic
C372	RC-GZA105AF1H	AB			1 μ F,50V,Electrolytic
C373	VCTYPA1CX223K	AA			0.022 μ F,16V
C374	VCTYPA1CX223K	AA			0.022 μ F,16V
C376	VCKYCY1EF103Z	AA			0.01 μ F,25V
C378	VCKYPA1HB331K	AA			330 pF,50V
C380	RC-GZA106AF1C	AB			10 μ F,16V,Electrolytic
C381	VCCCCY1HH120J	AA			12 pF (CH),50V
C382	VCCCCY1HH150J	AA			15 pF (CH),50V
C383	VCKYCY1EF223Z	AB			0.022 μ F,25V
C384	VCKYCY1HB102K	AA			0.001 μ F,50V
C385	VCKYPA1HF103Z	AB			0.01 μ F,50V
C386	VCKYPA1HB331K	AA			330 pF,50V
C387	VCKYCY1EF223Z	AB			0.022 μ F,25V
C388	VCKYCY1EF103Z	AA			0.01 μ F,25V
C389	VCKYPA1HF473Z	AB			0.047 μ F,50V
C390	RC-GZA476AF1C	AB			47 μ F,16V,Electrolytic
C391	RC-GZA476AF1C	AB			47 μ F,16V,Electrolytic
C392	VCKYCY1HB102K	AA			0.001 μ F,50V
C393	RC-GZA105AF1H	AB			1 μ F,50V,Electrolytic
C394	RC-GZA476AF1C	AB			47 μ F,16V,Electrolytic
C395	VCKYCY1EF223Z	AB			0.022 μ F,25V
C396	RC-GZA107AF1A	AB			100 μ F,10V,Electrolytic
C397	VCKYCY1EF223Z	AB			0.022 μ F,25V
C398	RC-GZA107AF1A	AB			100 μ F,10V,Electrolytic
C399	VCKYPA1HF223Z	AB			0.022 μ F,50V
C521	RC-GZA106AF1C	AB			10 μ F,16V,Electrolytic
C522	VCKYPA1HB331K	AA			330 pF,50V
C523	VCKYCY1EF104Z	AA			0.1 μ F,25V
C524	VCKYCY1HB561K	AA			560 pF,50V
C525	VCCCCY1HH220J	AA			22 pF (CH),50V

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] CAPACITORS					
C526	VCCCCY1HH220J	AA			22 pF (CH),50V
C527	VCKYCY1EF104Z	AA			0.1 μ F,25V
C535	RC-GZA476AF1C	AB			47 μ F,16V,Electrolytic
C536	VCKYCY1EF223Z	AB			0.022 μ F,25V
C537	VCKYPA1HF223Z	AB			0.022 μ F,50V
C601	RC-GZA106AF1C	AB			10 μ F,16V,Electrolytic
C602	RC-GZA106AF1C	AB			10 μ F,16V,Electrolytic
C603	VCKYCY1HB472K	AA			0.0047 μ F,50V
C604	VCKYCY1EF473Z	AB			0.047 μ F,25V
C605	RC-GZA106AF1C	AB			10 μ F,16V,Electrolytic
C606	RC-GZA106AF1C	AB			10 μ F,16V,Electrolytic
C607	RC-GZA475AF1H	AB			4.7 μ F,50V,Electrolytic
C608	RC-GZA475AF1H	AB			4.7 μ F,50V,Electrolytic
C609	RC-GZA225AF1H	AB			2.2 μ F,50V,Electrolytic
C610	RC-GZA225AF1H	AB			2.2 μ F,50V,Electrolytic
C611	VCKYCY1HB272K	AA			0.0027 μ F,50V
C612	VCKYCY1HB272K	AA			0.0027 μ F,50V
C613	VCQYKA1JM184J	AC	N		0.18 μ F,63V
C614	VCQYKA1JM184J	AC	N		0.18 μ F,63V
C615	RC-GZA105AF1C	AB			1 μ F,16V,Electrolytic
C616	RC-GZA105AF1C	AB			1 μ F,16V,Electrolytic
C617	RC-GZA336AF1C	AB			33 μ F,16V,Electrolytic
C618	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C619	VCKYCY1HB221K	AA			220 pF,50V
C620	VCKYCY1HB221K	AA			220 pF,50V
C621	VCKYCY1HB221K	AA			220 pF,50V
C622	VCKYCY1HB104K	AD			0.1 μ F,50V
C623	VCKYCY1HB104K	AD			0.1 μ F,50V
C624	RC-GZA106AF1C	AB			10 μ F,16V,Electrolytic
C625	RC-GZA106AF1C	AB			10 μ F,16V,Electrolytic
C626	RC-GZA475AF1H	AB			4.7 μ F,50V,Electrolytic
C627	RC-GZA475AF1H	AB			4.7 μ F,50V,Electrolytic
C628	VCKYCY1HB471K	AA			470 pF,50V
C629	VCKYCY1HB471K	AA			470 pF,50V
C630	RC-GZA106AF1C	AB			10 μ F,16V,Electrolytic
C631	RC-GZA106AF1C	AB			10 μ F,16V,Electrolytic
C632	VCKYCY1EF103Z	AA			0.01 μ F,25V
C633	RC-GZA337AF1C	AC			330 μ F,16V,Electrolytic
C634	RC-GZA335AF1H	AB			3.3 μ F,50V,Electrolytic
C635	RC-GZA335AF1H	AB			3.3 μ F,50V,Electrolytic
C636	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C637	VCKYCY1HB331K	AA			330 pF,50V
C638	VCKYCY1HB331K	AA			330 pF,50V
C639	VCKYCY1HB331K	AA			330 pF,50V
C640	VCKYCY1HB331K	AA			330 pF,50V
C701	RC-GZA476AF1C	AB			47 μ F,16V,Electrolytic
C702	VCKYCY1HB473K	AB			0.047 μ F,50V
C703	VCKYCY1HB101K	AB			100 pF,50V
C704	VCKYCY1HB472K	AA			0.0047 μ F,50V
C705	VCKYCY1HB101K	AB			100 pF,50V
C706	VCCCCY1HH240J	AA			24 pF,50V
C707	VCCCCY1HH240J	AA			24 pF,50V
C708	VCCCCY1HH150J	AA			15 pF (CH),50V
C709	VCCCCY1HH150J	AA			15 pF (CH),50V
C710	VCKYCY1EF104Z	AA			0.1 μ F,25V
C711	VCKYCY1HB102K	AA			0.001 μ F,50V
C712	VCKYCY1EF104Z	AA			0.1 μ F,25V
C713	RC-GZA336AF1C	AB			33 μ F,16V,Electrolytic
C714	VCKYCY1EF104Z	AA			0.1 μ F,25V
C715	VCCCCY1HH151J	AA			150 pF (CH),50V
C716	VCKYCY1EF104Z	AA			0.1 μ F,25V
C717	RC-GZA227AF1A	AB			220 μ F,10V,Electrolytic
C718	VCKYCY1HB103K	AA			0.01 μ F,50V
C719	VCKYCY1EB101K	AA			100 pF,25V
C720	VCKYCY1EB101K	AA			100 pF,25V
C721	VCKYCY1EF103Z	AA			0.01 μ F,25V
C722	VCKYCY1EF103Z	AA			0.01 μ F,25V
C723	VCKYCY1EF103Z	AA			0.01 μ F,25V
C724	VCKYCY1EF103Z	AA			0.01 μ F,25V
C725	VCKYCY1EF103Z	AA			0.01 μ F,25V
C726	VCKYCY1EF103Z	AA			0.01 μ F,25V
C727	VCKYCY1EF103Z	AA			0.01 μ F,25V
C728	VCKYCY1EF103Z	AA			0.01 μ F,25V
C729	VCKYCY1EF103Z	AA			0.01 μ F,25V
C730	VCKYCY1EF103Z	AA			0.01 μ F,25V
C731	VCKYCY1EF103Z	AA			0.01 μ F,25V
C732	VCKYCY1EF103Z	AA			0.01 μ F,25V
C733	VCKYCY1EF103Z	AA			0.01 μ F,25V
C734	VCKYCY1EF103Z	AA			0.01 μ F,25V
C735	VCKYCY1EF103Z	AA			0.01 μ F,25V
C801	VCKYCY1EF104Z	AA			0.1 μ F,25V
C802	RC-GZA336AF1C	AB			33 μ F,16V,Electrolytic
C803	VCKYCY1EF104Z	AA			0.1 μ F,25V
C804	VCKYCY1EF104Z	AA			0.1 μ F,25V
C805	RC-GZA228AF1C	AE			2200 μ F,16V,Electrolytic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] CAPACITORS					
C806	VCKYCY1EF104Z	AA			0.1 μ F,25V
C807	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C808	VCKYCY1EF104Z	AA			0.1 μ F,25V
C809	VCKYCY1HB102K	AA			0.001 μ F,50V
C810	RC-GZA474AF1C	AB			0.47 μ F,16V,Electrolytic
C811	VCKYCY1EF104Z	AA			0.1 μ F,25V
C812	VCKYCY1EF473Z	AB			0.047 μ F,25V
C813	VCKYCY1EF103Z	AA			0.01 μ F,25V
C814	VCKYCY1EF473Z	AB			0.047 μ F,25V
C815	VCKYPA1HB563K	AC			0.056 μ F,50V
C816	RC-GZA227AF1C	AB			220 μ F,16V,Electrolytic
C817	VCKYCY1EF103Z	AA			0.01 μ F,25V
C818	VCKYCY1EB563K	AD			0.056 μ F,25V
C819	VCKYCY1EF104Z	AA			0.1 μ F,25V
C820	VCKYCY1EF103Z	AA			0.01 μ F,25V
C821	VCKYCY1HB222K	AA			0.0022 μ F,50V
C822	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C823	RC-GZA106AF1C	AB			10 μ F,16V,Electrolytic
C824	RC-GZA106AF1C	AB			10 μ F,16V,Electrolytic
C825	RC-GZA105AF1C	AB			1 μ F,16V,Electrolytic
C826	VCKYCY1EF473Z	AB			0.047 μ F,25V
C827	VCKYCY1EF104Z	AA			0.1 μ F,25V
C828	VCKYCY1EF104Z	AA			0.1 μ F,25V
C829	VCCCCY1HH100J	AA			10 pF (CH),50V
C830	VCKYCY1HB104K	AD			0.1 μ F,50V
C831	VCCCCY1HH100J	AA			10 pF (CH),50V
C832	VCKYCY1HB104K	AD			0.1 μ F,50V
C833	VCKYCY1HB104K	AD			0.1 μ F,50V
C834	RC-GZA105AF1C	AB			1 μ F,16V,Electrolytic
C835	VCKYCY1HB104K	AD			0.1 μ F,50V
C836	RC-EZD107AF1C	AC			100 μ F,16V,Electrolytic
C837	RC-EZD107AF1C	AC			100 μ F,16V,Electrolytic
C838	RC-GZA107AF1C	AB			100 μ F,16V,Electrolytic
C839	VCKYCY1HB104K	AD			0.1 μ F,50V
C840	VCKYCY1HB104K	AD			0.1 μ F,50V
C841	VCKYCY1HB104K	AD			0.1 μ F,50V
C842	VCKYPA1HB101K	AA			100 pF,50V
C843	VCKYPA1HB101K	AA			100 pF,50V
C844	RC-GZV228AF1C	AG			2200 μ F,16V,Electrolytic
C845	VCCSCY1HL101J	AA			100 pF,50V
C846	VCCSCY1HL101J	AA			100 pF,50V
C847	VCKYPA1HB101K	AA			100 pF,50V
C848	RC-GZA477AF1C	AC			470 μ F,16V,Electrolytic
C849	VCKYCY1EF104Z	AA			0.1 μ F,25V
C850	RC-GZA477AF1C	AC			470 μ F,16V,Electrolytic
C851	VCKYCY1EF104Z	AA			0.1 μ F,25V
C852	VCKYCY1EF104Z	AA			0.1 μ F,25V
C853	RC-GZA477AF1C	AC			470 μ F,16V,Electrolytic
C854	VCKYCY1HB562K	AA			0.0056 μ F,50V
C855	RC-GZA476AF1C	AB			47 μ F,16V,Electrolytic
C856	RC-GZA227AF1C	AB			220 μ F,16V,Electrolytic
C857	VCKYPA1HB104K	AC			0.1 μ F,50V
[9] RESISTORS					
JP801	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
JP802	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
R7A2	VRS-CY1JB103J	AA			10 kohm,1/16W
R7A4	VRS-CY1JB103J	AA			10 kohm,1/16W
R101	VRD-ST2CD271J	AA			270 ohms,1/6W
R102	VRD-ST2CD271J	AA			270 ohms,1/6W
R103	VRD-ST2CD100J	AA			10 ohm,1/6W
R104	VRD-ST2CD100J	AA			10 ohm,1/6W
R105	VRS-CY1JB102J	AA			1 kohm,1/16W
R106	VRD-ST2CD100J	AA			10 ohm,1/6W
R107	VRD-ST2CD100J	AA			10 ohm,1/6W
R108	VRS-CY1JB102J	AA			1 kohm,1/16W
R109	VRS-CY1JB101J	AA			100 ohm,1/16W
R110	VRS-CY1JB152J	AA			1.5 kohms,1/16W
R111	VRS-CY1JB681J	AA			680 ohms,1/16W
R112	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R113	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R114	VRD-ST2CD472J	AA			4.7 kohms,1/6W
R115	VRD-ST2CD332J	AA			3.3 kohms,1/6W
R116	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R117	VRD-ST2CD682J	AA			6.8 kohms,1/6W
R118	VRS-CY1JB101J	AA			100 ohm,1/16W
R119	VRS-CY1JB563J	AA			56 kohms,1/16W
R120	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R121	VRD-ST2CD332J	AA			3.3 kohms,1/6W
R122	VRD-ST2CD332J	AA			3.3 kohms,1/6W
R123	VRD-ST2CD332J	AA			3.3 kohms,1/6W
R124	VRD-ST2CD682J	AA			6.8 kohms,1/6W
R125	VRD-ST2CD102J	AA			1 kohm,1/6W
R126	VRS-CY1JB331J	AA			330 ohms,1/16W
R127	VRD-ST2EE391J	AA			390 ohms,1/4W

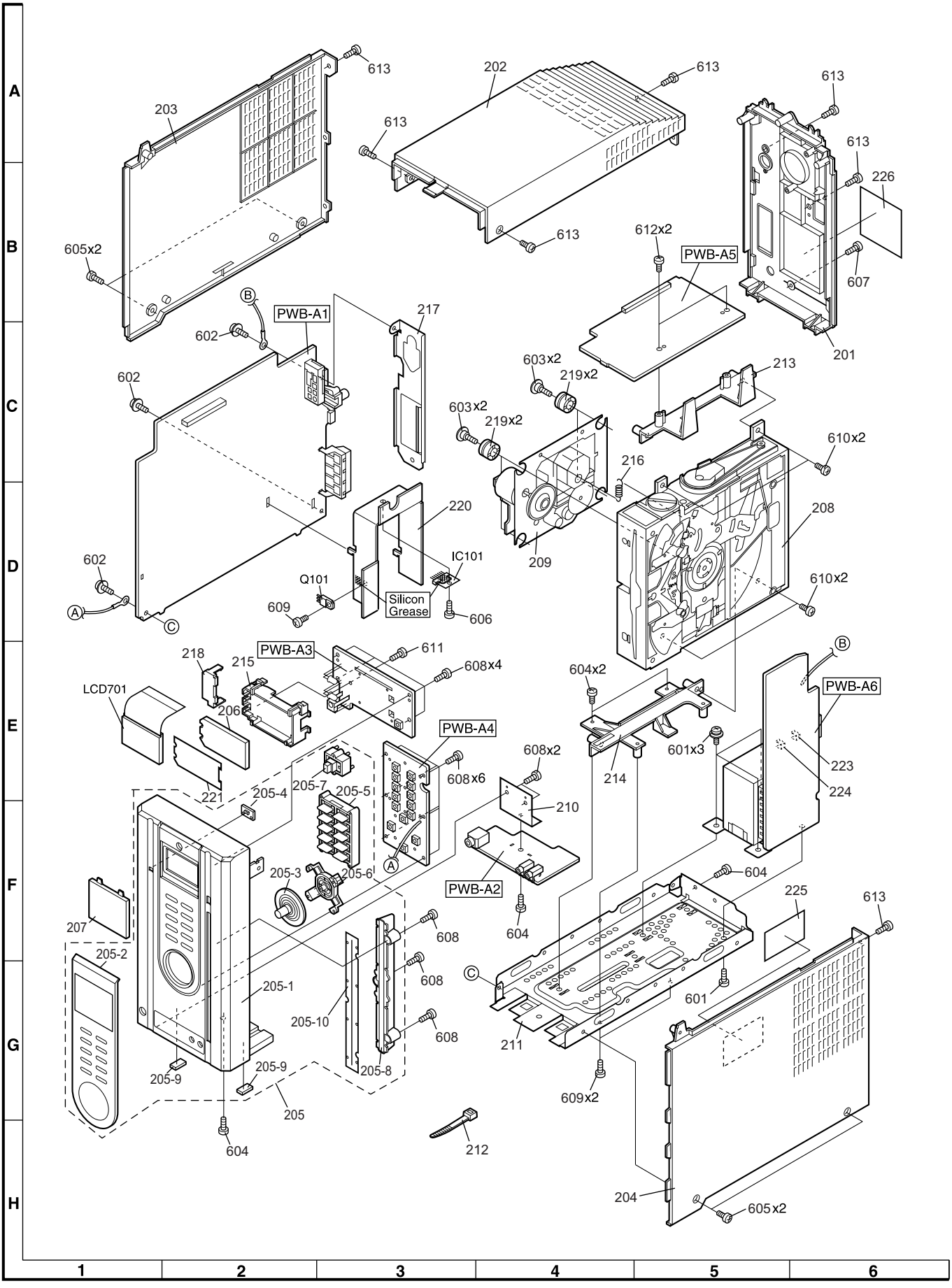
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] RESISTORS					
R128	VRD-ST2EE180J	AA			18 ohms,1/4W
R129	VRD-ST2EE180J	AA			18 ohms,1/4W
R130	VRD-ST2EE180J	AA			18 ohms,1/4W
R201	VRS-CY1JB102J	AA			1 kohm,1/16W
R202	VRS-CY1JB102J	AA			1 kohm,1/16W
R323	VRS-CY1JB683J	AA			68 kohms,1/16W
R336	VRD-ST2CD562J	AA			5.6 kohms,1/6W
R342	VRD-ST2EE100J	AA			10 ohm,1/4W
R343	VRD-ST2CD181J	AA			180 ohms,1/6W
R344	VRS-CY1JB681J	AA			680 ohms,1/16W
R345	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R346	VRS-CY1JB331J	AA			330 ohms,1/16W
R347	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R348	VRS-CY1JB681J	AA			680 ohms,1/16W
R349	VRS-CY1JB330J	AA			33 ohms,1/16W
R350	VRS-CY1JB272J	AA			2.7 kohms,1/16W
R351	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R352	VRS-CY1JB102J	AA			1 kohm,1/16W
R353	VRS-CY1JB271J	AA			270 ohms,1/16W
R355	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R356	VRS-CY1JB102J	AA			1 kohm,1/16W
R357	VRS-CY1JB474J	AA			470 kohms,1/16W
R358	VRS-CY1JB822J	AA			8.2 kohms,1/16W
R359	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R360	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R361	VRS-CY1JB123J	AA			12 kohms,1/16W
R362	VRS-CY1JB123J	AA			12 kohms,1/16W
R363	VRD-ST2CD912J	AA			9.1 kohms,1/6W
R364	VRS-CY1JB912J	AA			9.1 kohms,1/16W
R365	VRS-CY1JB103J	AA			10 kohm,1/16W
R366	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R369A	VRS-CY1JB680J	AA			68 ohms,1/16W
R369B	VRS-CY1JB820J	AA			82 ohms,1/16W
R371	VRS-CY1JB102J	AA			1 kohm,1/16W
R372	VRS-CY1JB102J	AA			1 kohm,1/16W
R373	VRS-CY1JB102J	AA			1 kohm,1/16W
R374	VRS-CY1JB102J	AA			1 kohm,1/16W
R376	VRD-ST2CD103J	AA			10 kohm,1/6W
R377	VRD-ST2CD562J	AA			5.6 kohms,1/6W
R379	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R380	VRD-ST2CD152J	AA			1.5 kohms,1/6W
R381	VRS-CY1JB103J	AA			10 kohm,1/16W
R382	VRD-ST2EE331J	AA			330 ohms,1/4W
R383	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R384	VRD-ST2CD682J	AA			6.8 kohms,1/6W
R385	VRD-ST2CD562J	AA			5.6 kohms,1/6W
R386	VRD-ST2EE331J	AA			330 ohms,1/4W
R387	VRD-ST2CD562J	AA			5.6 kohms,1/6W
R391	VRD-ST2EE391J	AA			390 ohms,1/4W
R392	VRD-ST2EE391J	AA			390 ohms,1/4W
R393	VRS-CY1JB102J	AA			1 kohm,1/16W
R395	VRD-ST2CD473J	AA			47 kohms,1/6W
R521	VRD-ST2CD473J	AA			47 kohms,1/6W
R528	VRS-CY1JB102J	AA			1 kohm,1/16W
R529	VRS-CY1JB102J	AA			1 kohm,1/16W
R532	VRS-CY1JB103J	AA			10 kohm,1/16W
R533	VRD-ST2CD563J	AA			56 kohms,1/6W
R534	VRD-ST2CD563J	AA			56 kohms,1/6W
R601	VRD-ST2CD102J	AA			1 kohm,1/6W
R602	VRD-ST2CD102J	AA			1 kohm,1/6W
R603	VRD-ST2CD102J	AA			1 kohm,1/6W
R604	VRS-CY1JB102J	AA			1 kohm,1/16W
R605	VRS-CY1JB102J	AA			1 kohm,1/16W
R606	VRS-CY1JB102J	AA			1 kohm,1/16W
R607	VRS-CY1JB102J	AA			1 kohm,1/16W
R608	VRD-ST2CD221J	AA			220 ohms,1/6W
R612	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R613	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R614	VRS-CY1JB103J	AA			10 kohm,1/16W
R615	VRS-CY1JB103J	AA			10 kohm,1/16W
R616	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R617	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R619	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R620	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R621	VRS-CY1JB752J	AA			7.5 kohms,1/16W
R622	VRS-CY1JB104J	AA			100 kohm,1/16W
R623	VRS-CY1JB104J	AA			100 kohm,1/16W
R626	VRS-CY1JB752J	AA			7.5 kohms,1/16W
R628	VRS-CY1JB102J	AA			1 kohm,1/16W
R629	VRS-CY1JB102J	AA			1 kohm,1/16W
R630	VRS-CY1JB103J	AA			10 kohm,1/16W
R631	VRD-ST2CD103J	AA			10 kohm,1/6W
R632	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R633	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R634	VRS-CY1JB223J	AA			22 kohms,1/16W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] RESISTORS					
R635	VRS-CY1JB223J	AA			22 kohms,1/16W
R636	VRS-CY1JB393J	AA			39 kohms,1/16W
R637	VRS-CY1JB393J	AA			39 kohms,1/16W
R638	VRS-CY1JB681J	AA			680 ohms,1/16W
R639	VRS-CY1JB681J	AA			680 ohms,1/16W
R641	VRS-CY1JB273J	AA			27 kohms,1/16W
R642	VRS-CY1JB273J	AA			27 kohms,1/16W
R643	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R644	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R645	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R646	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R651	VRS-CY1JB272J	AA			2.7 kohms,1/16W
R652	VRS-CY1JB272J	AA			2.7 kohms,1/16W
R653	VRS-CY1JB103J	AA			10 kohm,1/16W
R654	VRS-CY1JB103J	AA			10 kohm,1/16W
R655	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R656	VRS-CY1JB183J	AA			18 kohms,1/16W
R657	VRS-CY1JB183J	AA			18 kohms,1/16W
R701	VRS-CY1JB102J	AA			1 kohm,1/16W
R701A	VRS-CY1JB471J	AA			470 ohms,1/16W
R701B	VRS-CY1JB471J	AA			470 ohms,1/16W
R702A	VRS-CY1JB391J	AA			390 ohms,1/16W
R702B	VRS-CY1JB391J	AA			390 ohms,1/16W
R703	VRD-ST2CD102J	AA			1 kohm,1/6W
R703A	VRD-ST2CD223J	AA			22 kohms,1/6W
R703B	VRS-CY1JB223J	AA			22 kohms,1/16W
R704	VRD-ST2CD102J	AA			1 kohm,1/6W
R705	VRD-ST2CD102J	AA			1 kohm,1/6W
R706	VRD-ST2CD102J	AA			1 kohm,1/6W
R707	VRD-ST2CD102J	AA			1 kohm,1/6W
R708	VRD-ST2CD102J	AA			1 kohm,1/6W
R709	VRD-ST2CD102J	AA			1 kohm,1/6W
R710	VRS-CY1JB102J	AA			1 kohm,1/16W
R711	VRD-ST2CD102J	AA			1 kohm,1/6W
R712	VRS-CY1JB102J	AA			1 kohm,1/16W
R713	VRD-ST2CD102J	AA			1 kohm,1/6W
R714	VRD-ST2CD102J	AA			1 kohm,1/6W
R715	VRD-ST2CD102J	AA			1 kohm,1/6W
R716	VRD-ST2CD102J	AA			1 kohm,1/6W
R717	VRD-ST2CD102J	AA			1 kohm,1/6W
R718	VRS-CY1JB913J	AA			91 kohms,1/16W
R719	VRD-ST2CD102J	AA			1 kohm,1/6W
R720	VRD-ST2CD102J	AA			1 kohm,1/6W
R721	VRD-ST2CD102J	AA			1 kohm,1/6W
R723	VRS-CY1JB103J	AA			10 kohm,1/16W
R724	VRS-CY1JB103J	AA			10 kohm,1/16W
R725	VRS-CY1JB102J	AA			1 kohm,1/16W
R726	VRS-CY1JB103J	AA			10 kohm,1/16W
R729	VRS-CY1JB104J	AA			100 kohm,1/16W
R730	VRS-CY1JB103J	AA			10 kohm,1/16W
R731	VRS-CY1JB103J	AA			10 kohm,1/16W
R732	VRS-CY1JB104J	AA			100 kohm,1/16W
R733	VRS-CY1JB334J	AA			330 kohms,1/16W
R734	VRS-CY1JB103J	AA			10 kohm,1/16W
R735	VRS-CY1JB102J	AA			1 kohm,1/16W
R736	VRS-CY1JB103J	AA			10 kohm,1/16W
R737	VRS-CY1JB394J	AA			390 kohms,1/16W
R738	VRS-CY1JB103J	AA			10 kohm,1/16W
R739	VRS-CY1JB103J	AA			10 kohm,1/16W
R740	VRD-ST2CD103J	AA			10 kohm,1/6W
R741	VRS-CY1JB104J	AA			100 kohm,1/16W
R742	VRS-CY1JB122J	AA			1.2 kohms,1/16W
R743	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R744	VRS-CY1JB272J	AA			2.7 kohms,1/16W
R745	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R746	VRS-CY1JB822J	AA			8.2 kohms,1/16W
R747	VRS-CY1JB122J	AA			1.2 kohms,1/16W
R748	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R750	VRS-CY1JB102J	AA			1 kohm,1/16W
R751	VRS-CY1JB153J	AA			15 kohms,1/16W
R752	VRS-CY1JB223J	AA			22 kohms,1/16W
R753	VRD-ST2EE121J	AA			120 ohms,1/4W
R755	VRD-ST2CD100J	AA			10 ohm,1/6W
R756	VRS-CY1JB473J	AA			47 kohms,1/16W
R758	VRS-CY1JB223J	AA			22 kohms,1/16W
R759	VRS-CY1JB471J	AA			470 ohms,1/16W
R760	VRD-ST2CD103J	AA			10 kohm,1/6W
R761	VRS-CY1JB102J	AA			1 kohm,1/16W
R764	VRS-CY1JB392J	AA			3.9 kohms,1/16W
R765	VRD-ST2CD102J	AA			1 kohm,1/6W
R771	VRD-ST2CD223J	AA			22 kohms,1/6W
R773	VRD-ST2CD102J	AA			1 kohm,1/6W
R801	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
R802	VRD-ST2CD822J	AA			8.2 kohms,1/6W
R803	VRS-CY1JB822J	AA			8.2 kohms,1/16W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] RESISTORS					
R804	VRS-CY1JB331J	AA			330 ohms,1/16W
R805	VRS-CY1JB3R3J	AA			3.3 ohms,1/16W
R806	VRD-ST2CD471J	AA			470 ohms,1/6W
R807	VRS-CY1JB101J	AA			100 ohm,1/16W
R810	VRS-CY1JB202J	AA			2 kohms,1/16W
R811	VRS-CY1JB202J	AA			2 kohms,1/16W
R812	VRS-CY1JB912J	AA			9.1 kohms,1/16W
R813	VRS-CY1JB183J	AA			18 kohms,1/16W
R814	VRD-ST2CD561J	AA			560 ohms,1/6W
R815	VRD-ST2CD822J	AA			8.2 kohms,1/6W
R816	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R819	VRS-CY1JB331J	AA			330 ohms,1/16W
R820	VRD-ST2CD1R0J	AA			1 ohm,1/6W
R822	VRS-CY1JB225J	AA			2.2 Mohms,1/16W
R823	VRD-ST2CD103J	AA			10 kohm,1/6W
R824	VRD-ST2CD103J	AA			10 kohm,1/6W
R825	VRS-CY1JB681J	AA			680 ohms,1/16W
R826	VRS-CY1JB681J	AA			680 ohms,1/16W
R827	VRS-CY1JB683J	AA			68 kohms,1/16W
R828	VRS-CY1JB103J	AA			10 kohm,1/16W
R829	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R830	VRS-CY1JB820J	AA			82 ohms,1/16W
R831	VRS-CY1JB104J	AA			100 kohm,1/16W
R832	VRS-CY1JB820J	AA			82 ohms,1/16W
R833	VRD-ST2CD1R0J	AA			1 ohm,1/6W
R834	VRS-CY1JB203J	AA			20 kohms,1/16W
R835	VRS-CY1JB151J	AA			150 ohms,1/16W
R837	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R840	VRD-ST2CD220J	AA			22 ohms,1/6W
R841	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R842	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R844	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R845	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R850	VRS-CY1JB102J	AA			1 kohm,1/16W
R852	VRS-CY1JB102J	AA			1 kohm,1/16W
R853	VRS-CY1JB103J	AA			10 kohm,1/16W
R854	VRS-CY1JB102J	AA			1 kohm,1/16W
R855	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R856	VRD-ST2CD471J	AA			470 ohms,1/6W
R857	VRD-ST2EE102J	AA			1 kohm,1/4W
R858	VRD-ST2EE102J	AA			1 kohm,1/4W
R859	VRD-ST2CD102J	AA			1 kohm,1/6W
R860	VRD-ST2CD102J	AA			1 kohm,1/6W
R861	VRS-CY1JB102J	AA			1 kohm,1/16W
R862	VRS-CY1JB102J	AA			1 kohm,1/16W
[10] OTHER CIRCUITRY PARTS					
CFW101	QCNWNA432SJZZ	AB	N		Lead Wire with Lug
CFW102	QCNWNA449SJZZ	AB	N		Lead Wire with Lug
CFW601	QCNWNA448SJZZ	AB	N		Lead Wire with Lug
CFW701	QCNWNA431SJZZ	AB	N		Lead Wire with Lug
CFW702	QCNWNA463SJZZ		N		Lead Wire
CFW801	QCNWNA430SJZZ	AB	N		Lead Wire 2Pin (A-B)
CNP102	QCNCM999CAFZZ	AG			Plug,3Pin
CNP103	QCNCM998CAFZZ	AE			Plug,3Pin
CNP105	QCNCM999EAFZZ	AG			Plug,5Pin
CNP201	QCNCM999DAFZZ	AG			Plug,4Pin
CNP301	QCNCM052BSJZZ	AB			Plug,2Pin
CNP501	QCNCMA044SJZZ	AE	N		Plug,24Pin
CNP601	QCNCM999CAFZZ	AG			Plug,3Pin
CNP603	QCNCM999CAFZZ	AG			Plug,3Pin
CNP701	QCNCMA032SJZZ	AC			Plug,7Pin
CNP702	QCNCMA047SJ06	AB	N		Plug,6Pin
CNP703	QCNCM999FAFZZ	AE			Plug,6Pin
CNP704	QCNCWA043SJZZ	AG	N		Socket,37Pin
CNP705	QCNCM004BAFZZ	AB			Plug,2Pin
CNP801	QCNCWA031SJZZ		N		Socket,16Pin
CNW102	QCNWNA354SJZZ	AD	N		Connector Ass'y,3/3Pin with CNS102
CNW103	QCNWNA355SJZZ	AD	N		Connector Ass'y,3/3Pin with CNS103
CNW105	QCNWNA356SJZZ	AE	N		Connector Ass'y,6/5Pin with CNS105
CNW201	QCNWNA357SJZZ	AE	N		Connector Ass'y,5/4Pin with CNS201
CNW402	QCNWNA221SJZZ	AE			Connector Ass'y,7/6Pin with CNS402
CNW501	QCNCWA044SJZZ	AE	N		Socket,24Pin
CNW601	QCNWNA358SJZZ	AE	N		Connector Ass'y,4/3Pin with CNS601
CNW603	QCNWNA462SJZZ		N		Connector Ass'y,3/3Pin with CNS603
CNW702	QCNWNA359SJZZ	AE	N		Connector Ass'y,7/6Pin with CNS702
CNW703	QCNWNA360SJZZ	AE	N		Connector Ass'y,7/6Pin with CNS703
CNW705	QCNWNA440SJZZ	AC	N		Connector Ass'y,2/2Pin with CNS705
⚠ F101	QFS-D201CAWNi	AD			Fuse,T200mA L 250V
FC801	QCNWNA433SJZZ	AE	N		Flat Cable,16Pin
FE301	RTUNS0027AWZZ	AU			FM Front End
J101	QTANA0008SJZZ	AE			Terminal,Speakers
J103	QJAKM0001SJZZ	AG			Jack,Headphone
JM801	QCNWNA457SJZZ	AB	N		Jumper
LCD701	RV-LXA011SJZZ		N		FL Display

	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
	[10] OTHER CIRCUITRY PARTS					
⚠	RP101	RH-QX1067AFZZ	AE			Posistor,8.2 ohms
	RX701	VHLGP1U281X-1	AH			Remote Sensor,GP1U281X
⚠	SO102	QSOCA0212AWZZ	AD			Socket AC Input
	SO201	QTANCA003SJZZ	AD	N		Jack,Line In
	SO301	QTANC9006SJZZ	AD			FM Antenna Terminal
	SO601	QTANCA003SJZZ	AD	N		Jack,Line Out
	SW701	QSW-K0002SJZZ	AC			Switch,Key Type [STOP]
	SW702	QSW-K0002SJZZ	AC			Switch,Key Type [BASS/TREBLE]
	SW703	QSW-K0002SJZZ	AC			Switch,Key Type [MEMORY/SET]
	SW704	QSW-K0002SJZZ	AC			Switch,Key Type [CLEAR]
	SW705	QSW-K0002SJZZ	AC			Switch,Key Type [VOLUME UP]
	SW706	QSW-K0002SJZZ	AC			Switch,Key Type [PRESET DOWN]
	SW707	QSW-K0002SJZZ	AC			Switch,Key Type [ON/STAND-BY]
	SW708	QSW-K0002SJZZ	AC			Switch,Key Type [DISC EJECT]
	SW709	QSW-K0002SJZZ	AC			Switch,Key Type [FUNCTION]
	SW710	QSW-K0002SJZZ	AC			Switch,Key Type [PLAY]
	SW711	QSW-K0002SJZZ	AC			Switch,Key Type [MP3/WMA DISPLAY]
	SW712	QSW-K0002SJZZ	AC			Switch,Key Type [TIMER]
	SW713	QSW-K0002SJZZ	AC			Switch,Key Type [SLEEP]
	SW714	QSW-K0002SJZZ	AC			Switch,Key Type [PRESET UP]
	SW715	QSW-K0002SJZZ	AC			Switch,Key Type [VOLUME DOWN]
	VR351	RVR-M0026AWZZ	AC			10 kohm (B),Semi-VR [FM Mute Level]

[11] CABINET PARTS



	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
	[11] CABINET PARTS					
	201	GCABBA028SJSA	AG	N		Rear Panel
	202	GCABCA028SJSA	AK	N		Top Cabinet
	203	GiTASA015SJSA	AK	N		Side Panel,Left
	204	GiTASA016SJSA	AK	N		Side Panel,Right
	205	CPNLCA014SJ01	AX	N		Front Panel Ass'y
	205-1	--------	-			Front Panel
	205-2	HDECQA104SJSA	AN	N		DEC Plate
	205-3	HDECQA107SJSA	AE	N		Knob,VOLUME DEC
	205-4	HDECQA113SJSA	AD	N		R/C Sensor
	205-5	JKNBZA075SJSA	AF	N		Knob,FUNCTION
	205-6	JKNBZA076SJSA	AD	N		Knob,VOLUME
	205-7	JKNBZA078SJSA	AE	N		Knob,CD EJECT
	205-8	LHLDZA085SJZZ	AC	N		Holder,Disc Slot
	205-9	PCUSG0003SJZZ	AC			Cushion,Leg
	205-10	PSHEPA015SJZZ	AF	N		Felt,Disc Slot
	206	HDECQA112SJSA	AE	N		LCD Illuminator
	207	HDECQA114SJSA	AE	N		LCD Window
	208	KMECZA005SJZZ	BB	N		CD Slot In Mechanism Unit Ass'y
⚠	209	KRPLE0024SJM2	BC			CD Mechanism Ass'y
	210	LANGKA107SJFW	AC	N		Bracket,Jack PWB
	211	LCHSMA012SJFW	AH	N		Main Chassis
	212	LHLDW1001SJZZ	AD			Nylon Band
	213	LHLDZA083SJZZ	AD	N		Holder,Mechanism Unit,Top
	214	LHLDZA084SJZZ	AD	N		Holder,Mechanism Unit,Bottom
	215	LHLDZA086SJZZ	AC	N		Holder,LCD
	216	MSPRTA001SJZZ	AB	N		CD Unit Spring
	217	PCOVSA019SJFW	AD	N		Cover,Terminal
	218	PCOVUA004SJZZ	AC	N		Cover,LED
	219	PCUSGA026SJZZ	AC			Cushion
	220	PRDARA040SJZZ		N		Heat Sink
	221	PSHEPA007SJZZ	AC			LCD Diffusion Sheet
⚠	223	QFSHD1017CEZZ	AB			Holder,Fuse
⚠	224	QFSHD1018CEZZ	AB			Holder,Fuse
	225	TLABS0042SJZZ	AB			Label,Laser
	226	TSPC-A126SJZZ		N		Label,Specification
	601	LX-HZA005SJFN	AB			Screw,M3X8mm
	602	LX-JZA011SJFN	AB			Screw,M3X12mm
	603	LX-JZA016SJZZ	AB	N		Screw,M2.5x12mm
	604	XHBSN30P06000	AA			Screw,M3x6mm
	605	XHBY930P06000	AA			Screw,M3X6mm
	606	LX-JZA010SJFN	AB			Screw,M3X10mm
	607	XHBY930P08000	AA			Screw,M3x8mm
	608	XJBSN25P10000	AA			Screw,M2.5x10mm
	609	XJBSN30P08000	AA			Screw,M3x8mm
	610	XJBY730P12000	AA	N		Screw,M3x12mm
	611	XJBY925P08000	AA			Screw,M2.5x8mm
	612	XJBY730P10000	AA			Screw,M3X10mm
	613	XJBY930P12000	AA			Screw,M3x12mm
	[12] SPEAKER BOX PARTS					
		B3CPXLMP9H		N		Speaker Box Ass'y,L-CH/R-CH
	[13] ACCESSORIES/PACKING PARTS					
⚠	1	QACCE0002SJZZ	AH			AC Power Supply Cord
	2	QANTL0005SJZZ	AG			AM Loop Antenna
	3	QANTWA001SJZZ	AF			FM Antenna
	4	QPLGAA001SJZZ	AE	N		Adaptor,Plug
	5	RRMCGA036SJSA		N		Remote Control
	5-1	GCOVAA047SJSA		N		Battery Lid,Remote Control
	6	SPAKAA093SJZZ	AD	N		Packing Add.,Top
	7	SPAKAA094SJZZ	AD	N		Packing Add.,Bottom
	8	SPAKCA151SJZZ		N		Packing Case
	9	SPAKPA025SJZZ	AE	N		PAD
	10	SPAKPA026SJZZ	AE	N		ACS PAD
	11	SSAKA0002SJZZ	AE			Polyethylene Bag,Accessories
	12	SSAKHA048SJZZ	AC	N		Polyethylene Bag,Unit
	13	TiNSZA058SJZZ	AL			Operation Manual
	14	TLABZ0067SJZZ	AB			Label,Energy
	15	TLABZA085SJZZ	AC	N		Label,Pop
	16	--------				Battery (Not Replacement Item)
	[14] P.W.B. ASSEMBLY (Not Replacement Item)					
⚠	PWB-A	DCEKKV565SJ03	-	N		Main/Display/Power/etc. (A1-A6)
	[15] OTHER SERVICE PARTS					
		UDSKA0004AFZZ	AZ			CD Optical Pickup Lens Cleaner Disc

■INDEX

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
【 B 】				
B3CPXLMP9H	12-		N	
【 C 】				
CPNLCA014SJ01	11-205	AX	N	
【 D 】				
DCEKKV565SJ03	14-PWB-A	-	N	
【 G 】				
GCABBA028SJSA	11-201	AG	N	
GCABCA028SJSA	11-202	AK	N	
GCOVAA047SJSA	13-5-1		N	
GiTASA015SJSA	11-203	AK	N	
GiTASA016SJSA	11-204	AK	N	
【 H 】				
HDECQA104SJSA	11-205- 2	AN	N	
HDECQA107SJSA	11-205- 3	AE	N	
HDECQA112SJSA	11-206	AE	N	
HDECQA113SJSA	11-205- 4	AD	N	
HDECQA114SJSA	11-207	AE	N	
【 J 】				
JKNBZA075SJSA	11-205- 5	AF	N	
JKNBZA076SJSA	11-205- 6	AD	N	
JKNBZA078SJSA	11-205- 7	AE	N	
【 K 】				
KMECZA005SJZZ	11-208	BB	N	
KRPLE0024SJM2	11-209	BC		
【 L 】				
LANGKA107SJFW	11-210	AC	N	
LCHSMA012SJFW	11-211	AH	N	
LHLDW1001SJZZ	11-212	AD		
LHLDZA083SJZZ	11-213	AD	N	
LHLDZA084SJZZ	11-214	AD	N	
LHLDZA085SJZZ	11-205- 8	AC	N	
LHLDZA086SJZZ	11-215	AC	N	
LX-HZA005SJFN	11-601	AB		
LX-JZA010SJFN	11-606	AB		
LX-JZA011SJFN	11-602	AB		
LX-JZA016SJZZ	11-603	AB	N	
【 M 】				
MSPRTA001SJZZ	11-216	AB	N	
【 P 】				
PCOVSA019SJFW	11-217	AD	N	
PCOVUA004SJZZ	11-218	AC	N	
PCUSG0003SJZZ	11-205- 9	AC		
PCUSGA026SJZZ	11-219	AC		
PRDARA040SJZZ	11-220		N	
PSHEPA007SJZZ	11-221	AC		
PSHEPA015SJZZ	11-205- 10	AF	N	
【 Q 】				
QACCE0002SJZZ	13-1	AH		
QANTL0005SJZZ	13-2	AG		
QANTWA001SJZZ	13-3	AF		
QCNCM004BAFZZ	10-CNP705	AB		
QCNCM052BSJZZ	10-CNP301	AB		
QCNCM998CAFZZ	10-CNP103	AE		
QCNCM999CAFZZ	10-CNP102	AG		
〃	10-CNP601	AG		
〃	10-CNP603	AG		
QCNCM999DAFZZ	10-CNP201	AG		
QCNCM999EAFZZ	10-CNP105	AG		
QCNCM999FAFZZ	10-CNP703	AE		
QCNCMA032SJZZ	10-CNP701	AC		
QCNCMA044SJZZ	10-CNP501	AE	N	
QCNCMA047SJ06	10-CNP702	AB	N	
QCNCWA031SJZZ	10-CNP801		N	
QCNCWA043SJZZ	10-CNP704	AG	N	
QCNCWA044SJZZ	10-CNW501	AE	N	
QCNWNA221SJZZ	10-CNW402	AE		
QCNWNA354SJZZ	10-CNW102	AD	N	
QCNWNA355SJZZ	10-CNW103	AD	N	
QCNWNA356SJZZ	10-CNW105	AE	N	
QCNWNA357SJZZ	10-CNW201	AE	N	
QCNWNA358SJZZ	10-CNW601	AE	N	
QCNWNA359SJZZ	10-CNW702	AE	N	
QCNWNA360SJZZ	10-CNW703	AE	N	
QCNWNA430SJZZ	10-CFW801	AB	N	
QCNWNA431SJZZ	10-CFW701	AB	N	
QCNWNA432SJZZ	10-CFW101	AB	N	
QCNWNA433SJZZ	10-FC801	AE	N	
QCNWNA440SJZZ	10-CNW705	AC	N	
QCNWNA448SJZZ	10-CFW601	AB	N	
QCNWNA449SJZZ	10-CFW102	AB	N	
QCNWNA457SJZZ	10-JM801	AB	N	
QCNWNA462SJZZ	10-CNW603		N	
QCNWNA463SJZZ	10-CFW702		N	
QFS-D201CAWNi	10-F101	AD		
QFSHD1017CEZZ	11-223	AB		
QFSHD1018CEZZ	11-224	AB		
QJAKM0001SJZZ	10-J103	AG		
QPLGAA001SJZZ	13-4	AE	N	
QSOCA0212AWZZ	10-SO102	AD		
QSW-K0002SJZZ	10-SW701	AC		
〃	10-SW702	AC		
〃	10-SW703	AC		
〃	10-SW704	AC		
〃	10-SW705	AC		
〃	10-SW706	AC		
〃	10-SW707	AC		
〃	10-SW708	AC		
〃	10-SW709	AC		
〃	10-SW710	AC		
〃	10-SW711	AC		
〃	10-SW712	AC		
〃	10-SW713	AC		
〃	10-SW714	AC		
〃	10-SW715	AC		
QTANA0008SJZZ	10-J101	AE		
QTANC9006SJZZ	10-SO301	AD		
QTANCA003SJZZ	10-SO201	AD	N	
〃	10-SO601	AD	N	
【 R 】				
RBLN-0001SJZZ	6-L341	AE		
RBLN-A003SJZZ	6-L805	AB		
〃	6-L806	AB		
RC-EZD107AF1C	8-C836	AC		
〃	8-C837	AC		
RC-GZA105AF1C	8-C615	AB		
〃	8-C616	AB		
〃	8-C825	AB		
〃	8-C834	AB		
RC-GZA105AF1H	8-C123	AB		
〃	8-C125	AB		
〃	8-C358	AB		
〃	8-C367	AB		
〃	8-C368	AB		
〃	8-C370	AB		
〃	8-C371	AB		
〃	8-C372	AB		
〃	8-C393	AB		
RC-GZA106AF1C	8-C352	AB		
〃	8-C364	AB		
〃	8-C380	AB		
〃	8-C521	AB		
〃	8-C601	AB		
〃	8-C602	AB		
〃	8-C605	AB		
〃	8-C606	AB		
〃	8-C624	AB		
〃	8-C625	AB		
〃	8-C630	AB		
〃	8-C631	AB		
〃	8-C823	AB		
〃	8-C824	AB		
RC-GZA107AF1A	8-C396	AB		
〃	8-C398	AB		
RC-GZA107AF1C	8-C119	AB		
〃	8-C348	AB		
〃	8-C618	AB		
〃	8-C636	AB		
〃	8-C807	AB		
〃	8-C822	AB		
〃	8-C838	AB		
RC-GZA225AF1H	8-C357	AB		
〃	8-C609	AB		
〃	8-C610	AB		
RC-GZA226AF1C	8-C118	AB		
RC-GZA226AF1H	8-C117	AB		
RC-GZA227AF1A	8-C717	AB		
RC-GZA227AF1C	8-C816	AB		
〃	8-C856	AB		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
RC-GZA228AF1C	8-C805	AE		
RC-GZA335AF1H	8-C362	AB		
〃	8-C634	AB		
〃	8-C635	AB		
RC-GZA336AF1C	8-C617	AB		
〃	8-C713	AB		
〃	8-C802	AB		
RC-GZA337AF1C	8-C633	AC		
RC-GZA474AF1C	8-C810	AB		
RC-GZA475AF1H	8-C121	AB		
〃	8-C122	AB		
〃	8-C607	AB		
〃	8-C608	AB		
〃	8-C626	AB		
〃	8-C627	AB		
RC-GZA476AF1C	8-C390	AB		
〃	8-C391	AB		
〃	8-C394	AB		
〃	8-C535	AB		
〃	8-C701	AB		
〃	8-C855	AB		
RC-GZA476AF1E	8-C126	AB		
〃	8-C140	AB		
RC-GZA477AF1C	8-C848	AC		
〃	8-C850	AC		
〃	8-C853	AC		
RC-GZV108AF1E	8-C115	AD		
〃	8-C116	AD		
RC-GZV228AF1C	8-C129	AG		
〃	8-C844	AG		
RC-GZW228AF1E	8-C138	AE		
RC-GZW338AF1V	8-C137	AH		
RCiLAA002SJZZ	5-T302	AC		
RCiLBA006SJZZ	5-T306	AC		
RCiLCA004SJZZ	6-L105	AB		
〃	6-L201	AB		
〃	6-L202	AB		
〃	6-L203	AB		
〃	6-L601	AB		
〃	6-L602	AB		
〃	6-L603	AB		
RCiLiA002SJZZ	5-T351	AC		
RCiLZ0005SJZZ	6-L101	AF		
RCiLZA001SJZZ	6-L102	AC		
〃	6-L103	AC		
RCRM-0007SJZZ	7-X351	AG		
RCRSP0002SJZZ	7-X801	AL		
RCRSP0003SJZZ	7-X352	AL		
RCRSP0005SJZZ	7-X521	AF		
RCRSP0007SJZZ	7-X702	AE		
RFiLA0003SJZZ	4-CF352	AF		
RFiLF0003AWZZ	4-CF351	AK		
RFiLFA001SJZZ	4-CF301	AE		
〃	4-CF302	AE		
RFiLL0001SJZZ	6-L354	AF		
RH-iXA054SJZZ	1-iC701	AY		
RH-QX1067AFZZ	10-RP101	AE		
RRMCGA036SJSA	13-5		N	
RTRNPA045SJZZ	5-PT1	AX	N	
RTUNS0027AWZZ	10-FE301	AU		
RV-LXA011SJZZ	10-LCD701		N	
RVR-M0026AWZZ	10-VR351	AC		
【 S 】				
SPAKAA093SJZZ	13-6	AD	N	
SPAKAA094SJZZ	13-7	AD	N	
SPAKCA151SJZZ	13-8		N	
SPAKPA025SJZZ	13-9	AE	N	
SPAKPA026SJZZ	13-10	AE	N	
SSAKA0002SJZZ	13-11	AE		
SSAKHA048SJZZ	13-12	AC	N	
【 T 】				
TiNSZA058SJZZ	13-13	AL		
TLABS0042SJZZ	11-225	AB		
TLABZ0067SJZZ	13-14	AB		
TLABZA085SJZZ	13-15	AC	N	
TSPC-A126SJZZ	11-226		N	
【 U 】				
UDSKA0004AFZZ	15-	AZ		
【 V 】				
VCCCCY1HH100J	8-C829	AA		
〃	8-C831	AA		
VCCCCY1HH120J	8-C381	AA		

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VCCCCY1HH150J	8-C382	AA		
〃	8-C708	AA		
〃	8-C709	AA		
VCCCCY1HH151J	8-C715	AA		
VCCCCY1HH220J	8-C525	AA		
〃	8-C526	AA		
VCCCCY1HH240J	8-C706	AA		
〃	8-C707	AA		
VCCCPA1HH120J	8-C330	AA		
VCCSCY1HL101J	8-C845	AA		
〃	8-C846	AA		
VCCSCY1HL220J	8-C355	AD		
VCCSCY1HL330J	8-C343	AD		
〃	8-C344	AD		
VCCSCY1HL560J	8-C369	AD		
VCCUPA1HJ270J	8-C334	AA		
VCKYCY1EB101K	8-C719	AA		
〃	8-C720	AA		
VCKYCY1EB563K	8-C818	AD		
VCKYCY1EF103Z	8-C376	AA		
〃	8-C388	AA		
〃	8-C632	AA		
〃	8-C721	AA		
〃	8-C722	AA		
〃	8-C723	AA		
〃	8-C724	AA		
〃	8-C725	AA		
〃	8-C726	AA		
〃	8-C727	AA		
〃	8-C728	AA		
〃	8-C729	AA		
〃	8-C730	AA		
〃	8-C731	AA		
〃	8-C732	AA		
〃	8-C733	AA		
〃	8-C734	AA		
〃	8-C735	AA		
〃	8-C813	AA		
〃	8-C817	AA		
〃	8-C820	AA		
VCKYCY1EF104Z	8-C104	AA		
〃	8-C105	AA		
〃	8-C108	AA		
〃	8-C109	AA		
〃	8-C120	AA		
〃	8-C128	AA		
〃	8-C133	AA		
〃	8-C523	AA		
〃	8-C527	AA		
〃	8-C710	AA		
〃	8-C712	AA		
〃	8-C714	AA		
〃	8-C716	AA		
〃	8-C7A1	AA		
〃	8-C801	AA		
〃	8-C803	AA		
〃	8-C804	AA		
〃	8-C806	AA		
〃	8-C808	AA		
〃	8-C811	AA		
〃	8-C819	AA		
〃	8-C827	AA		
〃	8-C828	AA		
〃	8-C849	AA		
〃	8-C851	AA		
〃	8-C852	AA		
VCKYCY1EF123Z	8-C301	AA		
VCKYCY1EF223Z	8-C329	AB		
〃	8-C341	AB		
〃	8-C345	AB		
〃	8-C346	AB		
〃	8-C347	AB		
〃	8-C350	AB		
〃	8-C351	AB		
〃	8-C353	AB		
〃	8-C354	AB		
〃	8-C360	AB		
〃	8-C361	AB		
〃	8-C363	AB		
〃	8-C365	AB		
〃	8-C383	AB		
〃	8-C387	AB		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	8-C395	AB		
〃	8-C397	AB		
〃	8-C536	AB		
VCKYCY1EF473Z	8-C101	AB		
〃	8-C331	AB		
〃	8-C604	AB		
〃	8-C812	AB		
〃	8-C814	AB		
〃	8-C826	AB		
VCKYCY1HB101K	8-C703	AB		
〃	8-C705	AB		
VCKYCY1HB102K	8-C302	AA		
〃	8-C349	AA		
〃	8-C356	AA		
〃	8-C366	AA		
〃	8-C384	AA		
〃	8-C392	AA		
〃	8-C711	AA		
〃	8-C809	AA		
VCKYCY1HB103K	8-C124	AA		
〃	8-C718	AA		
VCKYCY1HB104K	8-C622	AD		
〃	8-C623	AD		
〃	8-C830	AD		
〃	8-C832	AD		
〃	8-C833	AD		
〃	8-C835	AD		
〃	8-C839	AD		
〃	8-C840	AD		
〃	8-C841	AD		
VCKYCY1HB221K	8-C619	AA		
〃	8-C620	AA		
〃	8-C621	AA		
VCKYCY1HB222K	8-C821	AA		
VCKYCY1HB272K	8-C611	AA		
〃	8-C612	AA		
VCKYCY1HB331K	8-C112	AA		
〃	8-C142	AA		
〃	8-C143	AA		
〃	8-C144	AA		
〃	8-C202	AA		
〃	8-C203	AA		
〃	8-C637	AA		
〃	8-C638	AA		
〃	8-C639	AA		
〃	8-C640	AA		
VCKYCY1HB471K	8-C628	AA		
〃	8-C629	AA		
VCKYCY1HB472K	8-C102	AA		
〃	8-C103	AA		
〃	8-C106	AA		
〃	8-C107	AA		
〃	8-C110	AA		
〃	8-C130	AA		
〃	8-C131	AA		
〃	8-C132	AA		
〃	8-C135	AA		
〃	8-C201	AA		
〃	8-C603	AA		
〃	8-C704	AA		
VCKYCY1HB473K	8-C139	AB		
〃	8-C141	AB		
〃	8-C702	AB		
VCKYCY1HB561K	8-C335	AA		
〃	8-C524	AA		
VCKYCY1HB562K	8-C854	AA		
VCKYPA1HB101K	8-C842	AA		
〃	8-C843	AA		
〃	8-C847	AA		
VCKYPA1HB104K	8-C134	AC		
〃	8-C857	AC		
VCKYPA1HB331K	8-C111	AA		
〃	8-C378	AA		
〃	8-C386	AA		
〃	8-C522	AA		
VCKYPA1HB563K	8-C815	AC		
VCKYPA1HF103Z	8-C385	AB		
VCKYPA1HF223Z	8-C332	AB		
〃	8-C337	AB		
〃	8-C399	AB		
〃	8-C537	AB		
VCKYPA1HF473Z	8-C389	AB		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VCQYKA1JM184J	8-C613	AC	N	
〃	8-C614	AC	N	
VCTYPA1CX223K	8-C127	AA		
〃	8-C373	AA		
〃	8-C374	AA		
VHCSVC348S/-1	3-VD301	AK		
VHD1N4004//-1	3-D105	AB		
〃	3-D109	AB		
〃	3-D803	AB		
〃	3-D804	AB		
VHD1N4148//-1	3-D112	AA		
〃	3-D113	AA		
〃	3-D114	AA		
〃	3-D201	AA		
〃	3-D202	AA		
〃	3-D301	AA		
〃	3-D302	AA		
〃	3-D303	AA		
〃	3-D304	AA		
〃	3-D308	AA		
〃	3-D521	AA		
〃	3-D601	AA		
〃	3-D602	AA		
〃	3-D701	AA		
〃	3-D702	AA		
〃	3-D703	AA		
〃	3-D704	AA		
〃	3-D705	AA		
〃	3-D708	AA		
〃	3-D801	AA		
〃	3-D802	AA		
VHD1N5395//-1	3-D101	AB		
〃	3-D102	AB		
〃	3-D103	AB		
〃	3-D104	AB		
〃	3-D805	AB		
VHD1SS133//-1	3-D110	AA		
VHEDZH04B2+-1	3-ZD802	AB		
VHEDZH05C2+-1	3-ZD115	AB		
〃	3-ZD351	AB		
〃	3-ZD801	AB		
VHEDZH09A2+-1	3-ZD803	AB	N	
VHEDZH11B1+-1	3-ZD111	AB	N	
VHEMM3Z6V2+-1	3-ZD701		N	
〃	3-ZD702		N	
〃	3-ZD703		N	
〃	3-ZD704		N	
VHiAN78L05/-1	1-iC102	AE		
VHiAT24C04/-1	1-iC7A1	AH		
VHiLA1832S/-1	1-iC303	AN		
VHiLA4631++-1	1-iC101	AM		
VHiLA6548ND-1	1-iC802	AL		
VHiLC72131/-1	1-iC302	AP		
VHiLC72723M-1	1-iC521	AS		
VHiLC75341M-1	1-iC601	AM		
VHiLC78690/-1	1-iC801	BE		
VHiNJM14558-1	1-iC602	AF		
VHLGP1U281X-1	10-RX701	AH		
VHPLPBB73VQ-1	3-LED701	AF		
〃	3-LED702	AF		
VP-DH101K0000	6-L351	AB		
〃	6-L352	AB		
VP-DH102K0000	6-L353	AB		
VP-DH1R0K0000	6-L104	AC		
VP-DH220K0000	6-L701	AB		
VP-DH2R2K0000	6-L342	AB		
〃	6-L521	AB		
〃	6-L702	AB		
〃	6-L801	AB		
VP-DHR82K0000	6-L502	AE		
〃	6-L804	AE		
VRD-ST2CD100J	9-R103	AA		
〃	9-R104	AA		
〃	9-R106	AA		
〃	9-R107	AA		
〃	9-R755	AA		
VRD-ST2CD102J	9-R125	AA		
〃	9-R601	AA		
〃	9-R602	AA		
〃	9-R603	AA		
〃	9-R703	AA		
〃	9-R704	AA		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	9-R705	AA		
〃	9-R706	AA		
〃	9-R707	AA		
〃	9-R708	AA		
〃	9-R709	AA		
〃	9-R711	AA		
〃	9-R713	AA		
〃	9-R714	AA		
〃	9-R715	AA		
〃	9-R716	AA		
〃	9-R717	AA		
〃	9-R719	AA		
〃	9-R720	AA		
〃	9-R721	AA		
〃	9-R765	AA		
〃	9-R773	AA		
〃	9-R859	AA		
〃	9-R860	AA		
VRD-ST2CD103J	9-R376	AA		
〃	9-R631	AA		
〃	9-R740	AA		
〃	9-R760	AA		
〃	9-R823	AA		
〃	9-R824	AA		
VRD-ST2CD152J	9-R380	AA		
VRD-ST2CD181J	9-R343	AA		
VRD-ST2CD1R0J	9-R820	AA		
〃	9-R833	AA		
VRD-ST2CD220J	9-R840	AA		
VRD-ST2CD221J	9-R608	AA		
VRD-ST2CD223J	9-R771	AA		
〃	9-R703A	AA		
VRD-ST2CD271J	9-R101	AA		
〃	9-R102	AA		
VRD-ST2CD332J	9-R115	AA		
〃	9-R121	AA		
〃	9-R122	AA		
〃	9-R123	AA		
VRD-ST2CD471J	9-R806	AA		
〃	9-R856	AA		
VRD-ST2CD472J	9-R114	AA		
VRD-ST2CD473J	9-R395	AA		
〃	9-R521	AA		
VRD-ST2CD561J	9-R814	AA		
VRD-ST2CD562J	9-R336	AA		
〃	9-R377	AA		
〃	9-R385	AA		
〃	9-R387	AA		
VRD-ST2CD563J	9-R533	AA		
〃	9-R534	AA		
VRD-ST2CD682J	9-R117	AA		
〃	9-R124	AA		
〃	9-R384	AA		
VRD-ST2CD822J	9-R802	AA		
〃	9-R815	AA		
VRD-ST2CD912J	9-R363	AA		
VRD-ST2EE100J	9-R342	AA		
VRD-ST2EE102J	9-R857	AA		
〃	9-R858	AA		
VRD-ST2EE121J	9-R753	AA		
VRD-ST2EE180J	9-R128	AA		
〃	9-R129	AA		
〃	9-R130	AA		
VRD-ST2EE331J	9-R382	AA		
〃	9-R386	AA		
VRD-ST2EE391J	9-R127	AA		
〃	9-R391	AA		
〃	9-R392	AA		
VRS-CY1JB000J	9-R801	AA		
〃	9-JP801	AA		
〃	9-JP802	AA		
VRS-CY1JB101J	9-R109	AA		
〃	9-R118	AA		
〃	9-R807	AA		
VRS-CY1JB102J	9-R105	AA		
〃	9-R108	AA		
〃	9-R201	AA		
〃	9-R202	AA		
〃	9-R352	AA		
〃	9-R356	AA		
〃	9-R371	AA		
〃	9-R372	AA		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	9-R373	AA		
〃	9-R374	AA		
〃	9-R393	AA		
〃	9-R528	AA		
〃	9-R529	AA		
〃	9-R604	AA		
〃	9-R605	AA		
〃	9-R606	AA		
〃	9-R607	AA		
〃	9-R628	AA		
〃	9-R629	AA		
〃	9-R701	AA		
〃	9-R710	AA		
〃	9-R712	AA		
〃	9-R725	AA		
〃	9-R735	AA		
〃	9-R750	AA		
〃	9-R761	AA		
〃	9-R850	AA		
〃	9-R852	AA		
〃	9-R854	AA		
〃	9-R861	AA		
〃	9-R862	AA		
VRS-CY1JB103J	9-R365	AA		
〃	9-R381	AA		
〃	9-R532	AA		
〃	9-R614	AA		
〃	9-R615	AA		
〃	9-R630	AA		
〃	9-R653	AA		
〃	9-R654	AA		
〃	9-R723	AA		
〃	9-R724	AA		
〃	9-R726	AA		
〃	9-R730	AA		
〃	9-R731	AA		
〃	9-R734	AA		
〃	9-R736	AA		
〃	9-R738	AA		
〃	9-R739	AA		
〃	9-R7A2	AA		
〃	9-R7A4	AA		
〃	9-R828	AA		
〃	9-R853	AA		
VRS-CY1JB104J	9-R622	AA		
〃	9-R623	AA		
〃	9-R729	AA		
〃	9-R732	AA		
〃	9-R741	AA		
〃	9-R831	AA		
VRS-CY1JB122J	9-R742	AA		
〃	9-R747	AA		
VRS-CY1JB123J	9-R361	AA		
〃	9-R362	AA		
VRS-CY1JB151J	9-R835	AA		
VRS-CY1JB152J	9-R110	AA		
VRS-CY1JB153J	9-R751	AA		
VRS-CY1JB182J	9-R359	AA		
VRS-CY1JB183J	9-R656	AA		
〃	9-R657	AA		
〃	9-R813	AA		
VRS-CY1JB202J	9-R810	AA		
〃	9-R811	AA		
VRS-CY1JB203J	9-R834	AA		
VRS-CY1JB222J	9-R366	AA		
〃	9-R379	AA		
〃	9-R612	AA		
〃	9-R613	AA		
〃	9-R619	AA		
〃	9-R620	AA		
〃	9-R643	AA		
〃	9-R644	AA		
〃	9-R743	AA		
〃	9-R748	AA		
〃	9-R841	AA		
〃	9-R842	AA		
〃	9-R844	AA		
〃	9-R845	AA		
VRS-CY1JB223J	9-R634	AA		
〃	9-R635	AA		
〃	9-R752	AA		
〃	9-R758	AA		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	9-R703B	AA		
VRS-CY1JB225J	9-R822	AA		
VRS-CY1JB271J	9-R353	AA		
VRS-CY1JB272J	9-R350	AA		
〃	9-R651	AA		
〃	9-R652	AA		
〃	9-R744	AA		
VRS-CY1JB273J	9-R641	AA		
〃	9-R642	AA		
VRS-CY1JB330J	9-R349	AA		
VRS-CY1JB331J	9-R126	AA		
〃	9-R346	AA		
〃	9-R804	AA		
〃	9-R819	AA		
VRS-CY1JB332J	9-R112	AA		
〃	9-R113	AA		
〃	9-R116	AA		
〃	9-R355	AA		
〃	9-R645	AA		
〃	9-R646	AA		
〃	9-R655	AA		
〃	9-R837	AA		
VRS-CY1JB334J	9-R733	AA		
VRS-CY1JB391J	9-R702A	AA		
〃	9-R702B	AA		
VRS-CY1JB392J	9-R764	AA		
VRS-CY1JB393J	9-R636	AA		
〃	9-R637	AA		
VRS-CY1JB394J	9-R737	AA		
VRS-CY1JB3R3J	9-R805	AA		
VRS-CY1JB471J	9-R759	AA		
〃	9-R701A	AA		
〃	9-R701B	AA		
VRS-CY1JB472J	9-R345	AA		
〃	9-R360	AA		
〃	9-R632	AA		
〃	9-R633	AA		
〃	9-R745	AA		
〃	9-R855	AA		
VRS-CY1JB473J	9-R756	AA		
VRS-CY1JB474J	9-R357	AA		
VRS-CY1JB562J	9-R120	AA		
〃	9-R351	AA		
〃	9-R383	AA		
〃	9-R616	AA		
〃	9-R617	AA		
VRS-CY1JB563J	9-R119	AA		
VRS-CY1JB680J	9-R369A	AA		
VRS-CY1JB681J	9-R111	AA		
〃	9-R344	AA		
〃	9-R348	AA		
〃	9-R638	AA		
〃	9-R639	AA		
〃	9-R825	AA		
〃	9-R826	AA		
VRS-CY1JB682J	9-R347	AA		
〃	9-R816	AA		
〃	9-R829	AA		
VRS-CY1JB683J	9-R323	AA		
〃	9-R827	AA		
VRS-CY1JB752J	9-R621	AA		
〃	9-R626	AA		
VRS-CY1JB820J	9-R830	AA		
〃	9-R832	AA		
〃	9-R369B	AA		
VRS-CY1JB822J	9-R358	AA		
〃	9-R746	AA		
〃	9-R803	AA		
VRS-CY1JB912J	9-R364	AA		
〃	9-R812	AA		
VRS-CY1JB913J	9-R718	AA		
VS2HA1015GR-1	2-Q105	AB		
〃	2-Q360	AB		
〃	2-Q810	AB		
VS2HC1815GR-1	2-Q104	AB		
〃	2-Q106	AB		
〃	2-Q107	AB		
〃	2-Q108	AB		
〃	2-Q521	AB		
〃	2-Q601	AB		
〃	2-Q602	AB		
〃	2-Q702	AB		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	2-Q703	AB		
〃	2-Q803	AB		
〃	2-Q806	AB		
〃	2-Q808	AB		
VS2SA1235F+-1	2-Q801	AD		
VS2SB1370E+-1	2-Q101	AG		
VS2SC3052F+-1	2-Q102	AD		
〃	2-Q103	AD		
〃	2-Q707	AD		
〃	2-Q709	AD		
〃	2-Q710	AD		
〃	2-Q805	AD		
VS2SC380-Ö/-1	2-Q301	AC		
VS2SC5395F+-1	2-Q708	AD		
VSKRA107M//-1	2-Q603	AE		
VSKRC104M//-1	2-Q351	AC		
VSKTA1271Y/-1	2-Q701	AC		
〃	2-Q704	AC		
VSKTC3203Y/-1	2-Q109	AC		
〃	2-Q705	AC		
〃	2-Q706	AC		
〃	2-Q802	AC		
VSKTC3205Y/-1	2-Q809	AD		
【 × 】				
XHBSN30P06000	11-604	AA		
XHBY930P06000	11-605	AA		
XHBY930P08000	11-607	AA		
XJBSN25P10000	11-608	AA		
XJBSN30P08000	11-609	AA		
XJBY730P10000	11-612	AA		
XJBY730P12000	11-610	AA	N	
XJBY925P08000	11-611	AA		
XJBY930P12000	11-613	AA		

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

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Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK ..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN ..... Cylindrical type (without lead wire)
VC • • TV ..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS ..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN ..... Cylindrical type (without lead wire)
VR • • TV ..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

-MEMO-

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